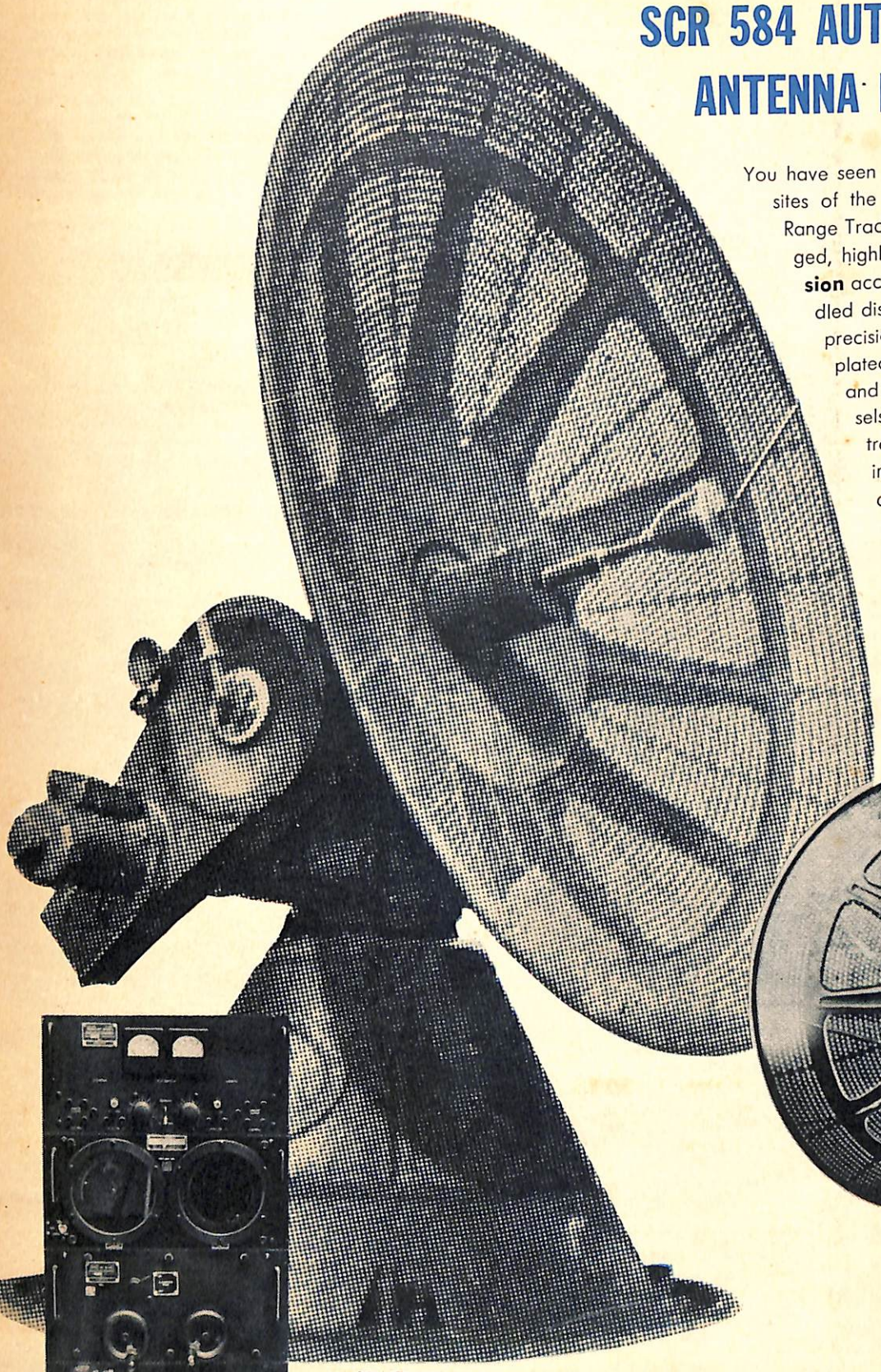
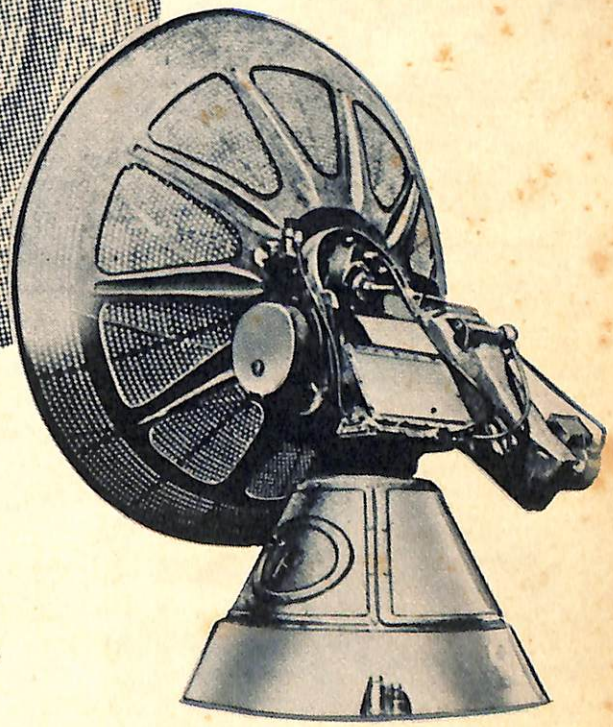
Radio-Research Instrument Co.
3 Quincy Street, Norwalk, Connecticut 06850 Telephone (203) 853-2600

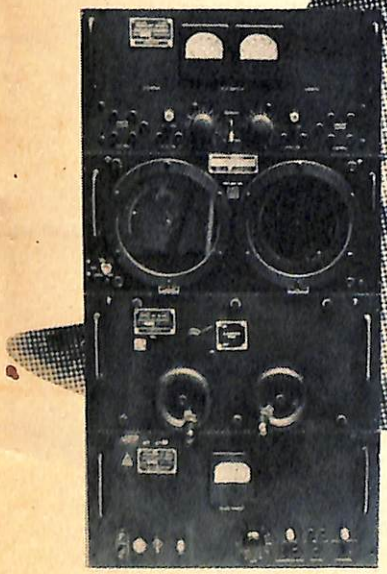
REFERENCE GUIDE 571

SCR 584 AUTO-TRACK ANTENNA MOUNT

You have seen this mount as the tracking pedestal on sites of the Atlantic & Pacific Missile Ranges, on Range Tracking ships, at NASA and ABMA. A rugged, highly dependable mount of **.5 mil precision** accuracy under field conditions, it has handled dishes up to 20 ft. in diameter. Contains a precision slip ring assembly mounting 48 gold plated rings. Amplidyne controlled, with selsyn and sine pot readouts, with hand control selsyn positioning as well as its automatic tracking abilities, we have them in stock for immediate delivery, complete in new condition, with a 60 day parts warrantee (and maintenance spares in stock.) A description of the nominal capabilities of our SCR584-MP61B mount can be found in the MIT McGraw-Hill Radiation Lab. Series Vol. 1, pps. 284 & 209, and Vol. 26, pg. 233. Of note is the wide use of these mounts for Telstar and Weather Satellite tracking and Radio Astronomy.







ILLUSTRATED WITH 6 FT. PARABOLA

LARGEST RADAR INVENTORY IN THE WORLD

RADAR SYSTEMS

U.H.F. BAND

175 mHz INTERROGATOR Radar Type: BL-6. Freq band: 157-187 mHz. Pwr output: 1.5 KW pulse. Pwr input: 115/230V, 50/60 cy. Mfr: Hazeltine.

160-350 mHz JAMMER Radar type: AN/ALT-7. Freq Band: 160-350 mHz. Pwr Output: 100 W nom. Osc Type: 6161. Rep Rate: CW. Pwr Input: 115v 400 cy. Mfr: Hallicrafter.

200-2400 mHz JAMMER Radar type: AN/APT-9. Freq Band: 200-2400 mHz. Pwr Output: 50 W. Osc Type: 2C39A. Rep Rate: CW. Pwr Input: 115V 400 cy. Mfr: Maxson.

200 mHz. SEARCH Radar type: SC-2. Freq band: 175-225 mHz. Pwr output and range: 200 KW, 0-375 mi. Indicator: PPI 12", A scope 5". Osc type: 4 ea 327A. Rep rate: 3 to 6 microsec, 60 pps. Pwr input: 115/230 60cy 1ph AC. Antenna: Bedspring array. Mfr: GE.

200 mHz SEARCH Radar type SRb air/surface search. Frequency band: 175 to 225mHz. Power output and range: 300KW, 4/20/80/200/400 mi. Indicator: PPI & A scopes. Osc type: pr 527 triodes. Modulator type: 5C22 thyr. Rep rate: 4 microsec 120 pps. Power input: 115V 60cy AC. Antenna: bedspring array. Mfr: Westinghouse.

200 mHz SEARCH Radar type: AN/TPS-28. Freq band: 210-225mHz. Pwr output and range: 1 megawatt, 400 mi. Indicator: PPI. Osc type: 4 ea 527 tubes. Mod type: 5949 thyr. Rep rates: 5 microsec, 170-190 pps. Pwr input: 115/208V 60cy 3ph AC. Antenna: large array. Mfr: Hazeltine.

200 mHz IFF TRANSPONDER Radar type: AN/APN-12. Freq band: 160-237 mHz. Pwr output: 500 watts. Osc. type: 2C26A. Rep rate: 4-7 microsec. 175 PPS. Pwr input: 115V 400cy. Antenna: AT-225/APN. Mfr. Olympic Radio.

300 mHz SHORAN type: AN/CPN-2A. Freq Band: 290-330 mHz. Pwr output: 30 KW nom 75W CW. Osc. type: 4C28 pr. Rep rate: .8 microsec, 930 pps. Pwr input: 115V 400cy AC. Mfr: RCA.

400mHz RANGE FINDER Radar type AN/PPN-13 ground. Freq band: 420 to 460 mHz. Power output: 5KW. Range: 10 to 10,000 meters. Indicator: Nixie readout. Osc: 4X150G. Modulator type: 3C45. Rep rate: .5 microsec 1.5 to 9KC. Power input: 115V 400cy. Mfr: Motorola.

400 mHz ANTI-PERSONNEL Radar type: AN/TPS-23. Freq band: 410 mHz. Indicator: 3" PPI or "A" 400 Watts. Includes automatic alarm circuit. Osc. type: 3CX100 (3 ea). Rep rate: 4550 PPS, 10 microsec. Pwr input: 115V 60cy. Antenna: Broad side array. Mfr: Sierra Research. Price: $1800.00.

400 mHz SEARCH Radar type: AN/FPS-23. Freq Band: 385-585 mHz. Pwr output: 1 to 2 KW. Osc type: 3KM 3000 LA. Rep rate: CW. Pwr input: 220V 60cy AC. Mfr.: Motorola.

L BAND

L BAND SEARCH Radar type AN/TPS-1D, ground radar. Freq band: 1220 to 1350mHz. Pwr output and range: 500KW, 20/40/80/160 mi. Indicator: PPI & A scopes. Mangnetron type: 5J26. Mod type: 5C22 thyr. Rep rate: 2 microsec 360 to 400 pps. Pwr input: 115V 400 cy AC. Antenna: 4 deg H, 12 deg V. Mfr: Raytheon.

L BAND SEARCH Radar type: AN/SPS-6C shipboard. Freq band: 1220 to 1350 mHz. Pwr output: 500KW. Range: 20 to 250 mi. Magnetron type: 5J26. Mod type: 5C22 thyr. Rep rate: 4/1, 150/600 PPS. Pwr input: 220V 60cy. Mfr: G.E. Antenna is large parabolic section apx 20' long, 5' high with horn feed.

L BAND INTERROGATOR Model FAA-ATCB1-1. Freq band: 1015-1045 mHz. Pwr output: 50 to 1500 watts. Rcvr: 1075-1105 mHz. Rep rate: .8 microsec, 150-475 PPS. Pwr input: 115V 60cy AC. Mfr: Babcock Electronics. Price: $2400.00. This system is solid state throughout. It is a late model designed for the FAA.

L BAND INTERROGATOR Ground. Freq. band: xmtr 990 to 1040 mHz. rcvr 1080-1130 mHz. Pwr. output: 5, 10, 20KW. Osc type: 2C39A. Rep rates: .7-1.2 microsec 180 to 400 pps. Pwr input: 115V 60cy AC. Mfr: ITT.

L BAND INTERROGATOR Radar type: AN/TPX-17 ground. Freq band: 1010 to 1030 mHz. Pwr output. 1KW. Osc type: 2C39A. Rep rate: .1 duty cycle. Pwr input: 115V 60cy AC. Mfr. G.E.

L BAND TRANSPONDER Radar type: AN/APX-25. Freq band: 1090-1030 mHz. Pwr output: 1KW. Codes: DBL pulse in, 14 pulse out. Osc type: 2C46. Rep rate: .45 microsec to 5600 PPS. Pwr input: 115V 400 Hz AC. Antenna: AT-234/APX. Mfr: Stewart-Warner.

L BAND TRANSPONDER Radar Type: AN/APX-6 airborne. Freq band: 950-1150 mHz. Pwr output: 1KW. Osc type: 2C39A. Mod type: 3E29. Rep rate: .005 D.C. Pwr input: 115V 400cy. Mfr: Stewart-Warner.

S BAND

S BAND JAMMER Radar type: AN/ALT-6A. Freq band: 2400-3600 mHz. Pwr output: 150 watts CW. Magnetron type: L-3110. Pwr input: 115V 60cy AC. Mfr. G.E.

S BAND JAMMER Radar type: AN/ALT-8B. Freq Band: 2300-4100 mHz. Pwr Output: 150 W. Magnetron type QK459, QK460. Rep Rate: CW. Pwr Input: 115V 400cy. Mfr: G.E.

S BAND BEACON Radar type: APN-7 radar transponder beacon. Freq band: 3300 mHz. Osc type: 2C40 xmtr. Rep rate: 600 PPS .4 microsec. Pwr output: 200 watt output peak. Pwr input: 115V 400cy. Compl w/omni dir dipole. 50 naut mi range. Wt: 40 lbs. total. Mfr: Philco. Price: $275.00. An ideal beacon for buoy marking and station keeping on ocean research vessels.

S BAND BEACON Radar type: AN/UPN-7 S band. Freq: 2820 mHz xmtr. Rcvr: 2850-2910. Pwr output: 1KW. Osc type: 2C39A. Pwr Input: 115V 60cy AC. Mfr: Melpar. Price $1400.00.

S BAND MIN. BEACON Radar type: AN/DPN-19. Freq band: 2850-2950 mHz. Pwr output: 50 W nom. Osc type: 5893. Mod. type: 2D21W. Rep rates: .75 microsec, 100-1500 pps, sgl or dbl pulse. Pwr input: Batt. Wt: 1.9 lbs. Price $575.00.

S BAND BEACON Radar type: AN/APN-19. Freq band: 2700-2900 mHz. Pwr output: 100 watt pulse. Osc type: 2C40. Modulator type: 2D21. Rep rate: .7 microsec 2000 PPS. Pwr input: 24VDC. Mfr. Lavoie. Receiver, in separate pkg, is 2 channel xtal video type, 300 mHz band pass. Ref: MIT Rad. Lab. Series Vol. 3 pg 412. Price: $375.00.

S BAND BEACON Radar type: AN/APN-60. Freq band: xmtr 2800-2920, rcvr 2700-2900 mHz. Pwr output and range: 100W pk 150 mi. Osc type: 2C40 lhts. Mod type: 2D21. Rep rate .75 microsec 2000 pps. Pwr input: 26VDC.

S BAND BEACON Radar type: AN/DPN-1. Freq. Band: 3060-3340 mHz. Pwr output: 10 KW. Magnetron type: 2J39. Pwr input: 28VDC. Antenna: 12" spinning dish, dipole feed, radome. Mfr: Bell Labs. Price: $575.00

S BAND TRANSPONDER Radar Type: AN/APW-11A. Freq Band: 2700-2950 mHz. Pwr output: 135W. Osc type: 2C40 LTHS. Rep rate: .8 microsec, 410 PPS. Pwr input: 115V 400 cy AC. Mfr: Emerson. Price: $575.00. Can supply Rcvr Amplifier for this system for improved capability.

S BAND WEATHER RADAR Radar type: SO-9 Freq band: 2900-3100 mHz. Pwr output: 75KW. Rep. rate: 400 pps 1 microsec. PPI. Range: 2, 4, 20, 80 mi. Antenna: Parabola w/radome. Pwr input: 28 to 32 VDC. Mfr: Raytheon. Price $975.00.

S BAND SURVEILLANCE Radar Type: ASR-2. Freq band: 2700-2900 mHz. Pwr output: 650 KW. Indicator: PPI-MTI. Magnetron type: 5586. Rep rate: 1200 PPS. Pwr input: 208V 60cy AC. Antenna: 12'x20'. Mfr: G.E. This system used by FAA for airport and airway control of aircraft. Range: "Piper Cub" at 50 mi. nominal.

S BAND AIRWAYS CONTROL Radar type: AN/CPN-18. Freq Band: 2700-2900 mHz. Pwr output and range: 500 KW, 200 mi. Indicator: PPI. Magnetron type: 5586. Rep rate: .5 microseconds, 1500 pps. Pwr input: 120V 60cy AC. Antenna: Large rect. para. sect. Mfr: Bendix.

S BAND ACQUISITION Radar Type: AN/FPS-14 Freq Band: 2700-2900 mHz. Pwr Output: 750 KW. Features: Stalo, MTI, COHO, Ferrite Isol. Magnetron Type: 5586. Rep rate: 1 microsec 900 PPS. Pwr Input: 208V 3 ph 60 cy. Antenna: Large Parab. Sect. Mfr: Bendix.

S BAND SEARCH Radar type: RCA, CR-106. Freq band: 3070 mHz. Pwr output: 20 KW nom. Indicator: 16" PPI. Magnetron type: 2J70. Modulator type: 4C35 thyr. Rep rate: .25/.65 microsec, 2000/800 pps. Pwr input: 115V 60 or 400 cy AC. Mfr: RCA.

S BAND SEARCH Radar system: SJ-1. Freq: 3000 mHz. Pwr output: 100KW. Rep rate: 600 & 1800 PPS. Pwr input: 120V 60cy AC. Mfr: W.E.

S BAND SEARCH Radar type: AN/BPS-4. Freq band: 3400 to 3700 mHz. Pwr output: 500KW Osc: 4J36 mag. Rep rate: 1 microsec, 400 pps, 5C22. Pwr input: 115V 60cy AC. Mfr: Westinghouse.

S BAND SEARCH Radar type: AN/APS-20. Freq band: 2860 to 2900 mHz. Pwr output: 800KW. Osc: 4J31 mag. Rep rate: 2 microsec, 400 pps. Pwr input: 208V 3ph 400cy. Mfr: G.E.

S BAND SEARCH Radar type: AN/CPS-6B. Freq band: 2700-3020 mHz. Pwr output: 900KW. Magnetron type: 5586. Mod type: 5948 thyratron. Rep rate: 1 microsec 600 PPS, 2 microsec 300 PPS. Indicator: 12" PPI. Pwr input: 208V 60cy AC. Mfr: G.E.

S BAND ACQUISITION Radar Type: AN/FPS-18. Freq Band: 2700-2900 mHz. Pwr output: 1 megawatt. Osc type: V-87B klystron Rep rate: 1 microsec 1200 PPS Pwr Input: 120/208 60 cy. Antenna: Large Parab. Sect. Mfr: Bendix.

S BAND "AJAX" ACQ. Radar type: OA-653/MS Nike Ajax. Freq band: 3100 to 3500 mHz. Pwr output: 1 megawatt. Magnetron type: 5795. Mod type: 5948 thyr. Rep rate: 1.3 microsec 1000 PPS. Pwr input: 115V 400cy. Antenna: Parab sect. Mfr: W.E.

S BAND AUTOTRACK Radar type: AN/MPS-9. Freq band: 2700-2900 mHz. 100 mi. Pwr output : 250 to 650 KW. Indicator: PPI & J scope. Magnetron type: 5586. Mod type: 6C21. Pwr input: 115V 60cy AC. Antenna: Parab dish. Mfr: Reeves Instr.

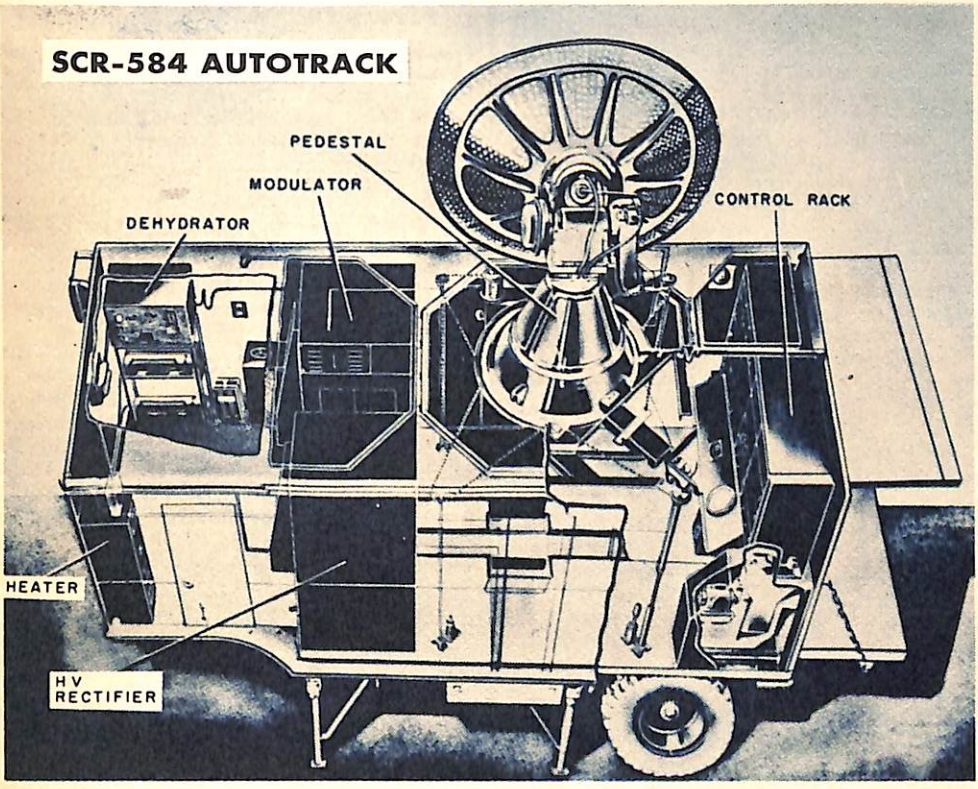
S BAND AUTOTRACK Radar type: AN/MPS-19. Freq band: 2700-2900 mHz. Pwr output: 500KW. Magnetron type: 5586. Mod type: 5C22. Rep rate: .8 microsec, 300 to 2000 PPS. Pwr input: 208V 60cy AC. Automatic range & angle tracking.

S BAND AUTOTRACK Radar type: AN/MPQ-12. Freq band: 2.7-2.9 gHz. Pwr output: 250KW. Indicator: PPI, J scope. Magnetron type: 2J32. Rep rate: .25 microsec 365 or 1707 PPS. Pwr input: 115V 60 Hz AC. Antenna: 10' dish. Mfr: Reeves

S BAND AUTOTRACK Radar type: AN/MPQ-18. Freq band: 2650-2950 mHz. Pwr output: 600KW. Indicator: PPI & J scopes. Magnetron type: 5586. Mod type: 6C21 hard tube. Rep rate: .001 duty cy. Pwr input: 115V 60cy. Antenna: 10 ft parabola. Mfr: Reeves Inst.

S BAND GUN DIRECTOR Radar type: MK 28 MOD 3. Freq band: 3150 mHz. Pwr output & range: 50KW. Indicator: 5" "A" type, and 2" train & elevation. Magnetron type: 2J62. Rep rate: 0.5 microsec 1800 PPS. Pwr input: 115V 1 ph 60 Hz. Antenna: 42" dish with conical scan. Mfr: Western Elec.

S BAND HEIGHT FINDER Radar type: AN/SPS-8. Freq band: 3200-3600 mHz. tuneable. Pwr output: 750KW. Pwr input: 115V 60cy AC. Mfr: G.E.



SCR-584 AUTOTRACK Radar type: SCR 584. Freq band: 2700-2900 mHz. Pwr output: 250 KW. Indicator: PPI, J scope. Magnetron type: 2J32. Rep rate: .8 microsec, 1707 PPS. Pwr input: 115V 60 Hz AC. Antenna: 6' parabola with conical scan. Mfr: G.E.

Designed at MIT Radiation Labs and still considered one of the finest automatic tracking radars ever built, it is now being used in hundreds of installations in its original form and in various modifications up to and including the thousand mile very long tracking Range Radar, the Mod II Radar, the AN/MSQ-1 and dozens of others, and coming into its own again for the new 2200mc. telemetry range where its S band auto-track radar system is combined with telemetry reception. We have them in stock for immediate delivery complete in their own 20 ft. trailer van containing the entire system which includes PPI and J scope readout, computer input readout, auto-track antenna mount as described below, (which is housed in the trailer van and is automatically raised into roof position by an elevator for operation) a one megawatt pulse modulator. We have both the 10cm. and the 3cm. versions of this radar. Incapable of being replaced today for less than $200,000 – our price with immediate off the shelf delivery and a 6 mos. parts warrantee for a complete system will seem too good to be true when written on your budget sheet. Complete instruction manuals are supplied with each system as well as assurance of our off the shelf maintenance parts. Read some of its nominal original capabilities in the MIT Radiation Lab. Series Vol. I pps 207-210, 228, 284-286. We have a good quantity of these systems in stock for immediate delivery.

We have 600 page *SCR-584 manuals for sale at $25 each.* An ideal reference source on one of the finest radars ever built.

HUGE SPARES INVENTORY

C BAND

C BAND BEACON Radar Type: Avien 149-C 12B. Freq band: 5400-5900 mHz. Pwr output: 500 W. Magnetron type: BLM-017. Rep rate: .002 duty cy. Overall variation delay not greater than .05 microsec. Sens: .15+20db to −60 dbm. Pwr input: 29V 1.2A. Wt. 12 lbs. Antenna: omni dir. Mfr: ACF. Used on Mercury, MK V, MK II, Delta, Pershing, Scout.

C BAND HT. FINDER Radar type: AN/FPS-26. Freq. Band: 5400-5900 mHz. Pwr output: 2.5-5 megawatts. Klystron type: SAC-42A. Rep rate: 3 microsec 333 pps. Antenna: 24' x 6' sail. Mfr: Avco.

C BAND SEARCH Radar type: AN/SPS-5B. Freq band: 6275-6575 mHz. Pwr output: 170-285KW Magnetron type: 4J57. Rep rate: .37 microsec 683 pps. Mod type: 5C22. Pwr input: 115V 60cy AC. Indicator: PPI. Range: 2,4,10,30 mi. Raytheon. $3800.00

C BAND SEARCH Radar type: AN/SPS-10. Freq band: 5450-5825. Pwr output: 190-285 KW. Magnetron type: QK-235. Mod. type: 5C22 thyr. Rep rate: .25, 1.3, 2.25 microsec 650/625 pps. Pwr input. 115V 1ph 60cy Ac. Mfr: Sylvania.

C BAND AUTOTRACK MORTAR LOCATOR Radar type: AN/MPQ-21. Freq band: 6000 mHz. Pwr output: 1 megawatt. Megnetron type: QK241. Modulator type: 5949. Rep rate: 1 microsec 1000 PPS. Pwr input: 115V 60cy AC. Antenna: 10' dia. Mfr: Sperry. Parabolic reflector. Conical scan 30 CPS. Sector scan capability: 10 to 45 deg. adjustable/scan/1.5 sec. in az. Mounted on 4 wheel gun carriage type trailer. Designed as mortar locator system. Includes ballistic computer.

C BAND RADAR LINK Type: AN/MRR-4. Freq band: 7455-7775 mHz. Pwr output: 150 milliwatts. Osc type: QK-422 klystron. Pwr input: 115V 60 Hz AC. Antenna: 6' parabolas. Mfr: Motorola. Note: Complete radar link installation. 3 transmit channels. Full video.

X BAND

X BAND AUTOMATIC JAMMER Radar type: AN/ULT-2. Freq band: 3 cm octave. Magnetron type: QK533. Rcvr: Varian X-13 LO, Huggins HA4FE TWT ampl. Mod type: 5 ea 304 TL. Pwr input: 115V 60cy AC. Mfr: ITT.

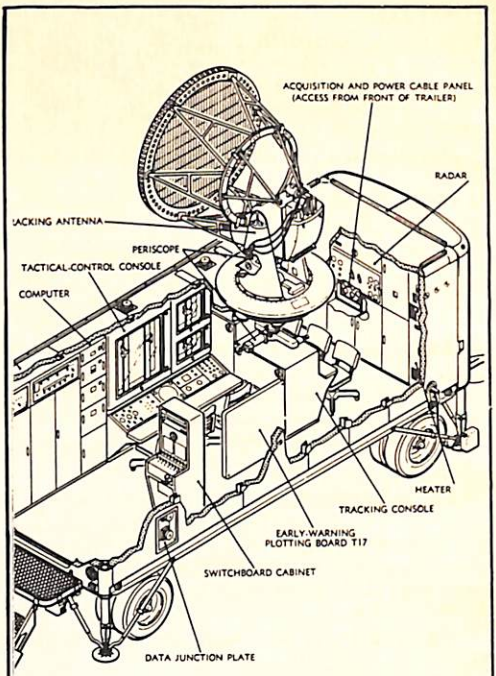
X BAND AUTOTRACK Radar type: AN/GPG-1 automatic tracking radar system. Pwr output: 50KW. Will search, autotrack, or hand track. Accuracy 1 mil or better in AZ and EL. Indicator: PPI

X BAND AUTOTRACK. Radar type: AN/MPQ-29. Freq Band: 8500-9600 mHz. Pwr output and range: 40 KW-92 KM. Indicator: PPI, J scopes. Magnetron type: 2J51. Rep rate: .1000 pps, .25/.5 microsec. Pwr input: 115V 60cy AC. Antenna: Autotrack. Mfr: Sperry-Utah.

X BAND AUTOTRACK Radar type: AN/UPW-1. Freq band: 8500-9600 mHz. Pwr output & range: 50 KW nom. 20,000 meters. Indicator: A scope & slant range. Magnetron type: 2J51. Rep rate: .2 microsec 713 PPS. Pwr input: 115V 60cy AC. Mfr: Ford Instrument. Trailer mounted system capable of skin track or beacon track, w/plot board.

X BAND AUTOTRACK INSTRUMENTATION Radar type: Nike Ajax modification. Freq band: 8500-9600 mHz. Pwr output: Dual-250KW & 50KW. Magnetron type: 7535 & 2J51. Pwr input: 115V 3 Ph 400 Hz. Mfr: Western Electric. Note: Combined pointing & tracking mount. For capture & guidance.

X BAND AIRBORNE AUTOTRACK Radar type: AN/APG-26. Freq Band: 9245 mHz. Pwr Output: 50 KW. Indicator: C scope. Magnetron type: 2J55. Rep Rate: .4 microsec 2400 PPS. Pwr Input: 115V 400 cy AC. Antenna: X=120 deg. Y=120 deg. Autotrack. Mfr: Westinghouse.



M-33 AUTOTRACK Radar type: M-33. Freq band: 8500-9600 mHz. Pwr output: 250 KW. Indicator: Azimuth, Elevation, Range. Magnetron type: 5780. Rep rate: .25 microsec, 1000 PPS. Pwr input: 120V 400 Hz 3 Ph. Antenna: Fresnel lens, nutating feed. Mfr: Western Electric.

The M-33 is a highly accurate tracking radar mounted in a van. It includes a computer and plotting boards. A 1 megawatt, 10 cm acquisition radar is available from stock to work with this system. The X band M-33 tracking radar has a PPI range of 120,000 yards. Azimuth sweep of antenna is 360 deg., elevation −180 to +1600 mils (below horiz. to zenith). Tracking rates: range 600 yards per second; azimuth 700 mils per second; elevation 500 mils per second. Slewing rate in range is 6,000 yards per second. An optical tracker-periscope is fitted to work through the antenna rotary joint. We have complete systems in stock.

HUGE SPARES INVENTORY

X BAND TURRET SYSTEM Radar Type: Aero 21B. Freq Band: 9320 mHz. Pwr Output: 50KW. Indicator: "B" & "C" scopes. Magnetron type: 2J55. Pwr Input: 115V 400 cy. Antenna: X-Y mount w/4 port lobe switch. Mfr: Westinghouse.

X BAND AIRBORNE AUTOTRACK Radar type: AN/APG-51B. Freq band: 9375 mHz. Pwr output: 200 KW. Indicator: "B" & "F" scopes. Magnetron: 4J50. Rep rate: .5 and 2.35 microsec, 416/910 PPS. Pwr input: 115V 400cy. Antenna: X-Y mount. Mfr: G.E.

X BAND AIRBORNE AUTOTRACK Radar type: AN/APG-32. Freq band: 9245 mHz. Pwr output & range: 40KW, 24 yard search, 8K track. Indicator: 3 inch "B" scope. Magnetron type: 2J56. Rep rate: .5 microsec 2000 PPS. Pwr input: 115V 400 Hz AC. Antenna: Dish Horz. 114 deg. Vert. 76 deg. Mfr: G.E. Note: Turret is controlled by computer and can be slaved to the radar. A5 fire control system used on B-47E aircraft.

X BAND AIRBORNE GUNLAYING Radar type: AN/APG-33. Freq band: 9245 mHz. Pwr output and range: 50KW, 2400 yds. Indicator: "B" scope. Magnetron type: 2J56. Rep rate: .001 duty cy. 2000 PPS. Pwr input: 115V 400cy AC. Antenna: X-Y mount. Mfr. G.E.

X BAND FIRE CONTROL Radar type: Hughes E-4. Freq band: 9050 mHz. Pwr output: 200KW. Magnetron type: 6249A. Rep rate: .0013 duty cy. Antenna: X-Y antenna mount. Joystick control. Pwr input: 115V 400cy AC. Mfr: Hughes.

X-BAND AIRBORNE FIRE CONTROL Radar type: MA-10 (F-104). Freq band: 8750-9600 mHz. Pwr output: 190 KW. Magnetron type: 6865A. Rep rate: 1.5 or 2.5 microsec, 1000 PPS. Pwr input: 115V 400 Hz. Antenna: 24'' rotating dish. Mfr: RCA. Note: Used on F-104 aircraft.

X BAND FIRE CONTROL Radar type: MD-4 & A5. Freq band: 9245 mHz. Pwr output: 50KW, 8000 yd track. Indicator: B scope. Magnetron type: 2J56. Rep rate: .5 microsec 2000 PPS. Pwr input: 115V 400 Hz AC. Mfr: GE. Note: Supplied complete with gun turret assy. & computer. Gyro stabilized.

X BAND RANGE ONLY Radar type: AN/APG-30. Freq band: 9375 mHz. Pwr output: 10KW. Indicator: Tail warning flasher & horn. Magnetron type: 2J42. Modulator type: 3E29. Duty cycle: .002. Pwr input: 115V 400cy AC. Antenna: Circ polarized horn type AT-488. Mfr: G.E.

X BAND DOPPLER Radar type: T-7 Chronograph. Freq band: 8.2-11.5 gHz. Pwr output: .6 watts CW. Indicator: Digital readout counter. Osc. type: Varian V-55 klystron. Modulator type: CW doppler. Pwr input: 115V 400cy. Antenna: 20'' dia. parabola. Mfr: G.E. Designed for checking muzzle velocity of ballistic trajectories.

X BAND PULSE DOPPLER Radar type: AN/APN-81, AN/APN-82 Navigator. Freq band: 8700-8900 mHz. Pwr output and range: 1.2 KW Indicator: Digital. Magnetron type: 6248. Pulse doppler. Rep rate: .9 microsec, 50KC. Pwr input: 115V 400cy AC. Mfr: Gen. Prec. Uses AN/ASN-6 computer. Price $2200.00. System check-out console also in stock.

X BAND PULSE DOPPLER Radar type: AN/APN-102 ''Radan'' navigator. Freq band: 8800 mHz. Pwr output: 10 watts avg. Magnetron type: L3089. Mod type: 3E29. Rep rate: 4 to 18 microsec. Pwr input: 115V 800cy AC. Antenna: Janus planar array. Mfr: G.P.L. A-T-R unit and freq tracker. Price $1600.00.

X BAND PULSE DOPPLER Radar type: AN/APN-108 navigator. Freq band: 8.7 to 8.9 gHz. Pwr output & range: 1.2KW, 0 to 70 K feet. Indicator: Meters 0-700 knots G.S., ±45 deg drift. Magnetron type: 6248. Rep rate: .045 duty cycle. Pwr input: 115V 400 Hz. Antenna: Slotted array. Mfr: General Precision. Note: Used on B-52E aircraft.

X BAND TAIL WARNING Radar type: AN/APS-28. Freq Band: 9245 mHz. Pwr output and range: 35 KW-4 mi. Indicator: O scope. Rep rate: .5 microsec, 2000 pps. Pwr input: 115V 400cy AC. Antenna: Sector scan-tail warning. Mfr: Westinghouse.

X BAND NIKE MISSILE Compl electronic guidance sect of Nike missile including: control transmitter, pitch & yaw accelerometers, beacon, modulator, video, amplifier, steering order demodulator, Magnetron #RK6229, gyro unit, pressure transmitter, roll amount gyro, roll rate gyro, yaw rate gyro, pitch rate gyro. Mfr: W.E.

X BAND GCA Radar type: AN/FPN-32. Freq band: 8500-9600 mHz. Pwr output: 50KW. Magnetron type: 2J51. Mod type: 4C35. Rep rate: 2 microsec, 2000 PPS. Antenna: 360 deg Az plus precision runway ht. fdr. Mfr: Lab for Electronics. This system is portable and is referred to as the ''Quad'' radar.

X BAND CONTROL APPROACH SYSTEM Radar type: AN/SPN-8A. Freq Band: 9000-9180 mHz. Pwr output: 40 to 60 KW. Indicator: PPI. Magnetron type; 2J51. Rep rate: .25 microsec, 4000 pps. Pwr input: 115V 60cy AC. Antenna: Pitch & roll stabilized. Mfr: Bendix.

GROUND POSITION COMPUTER SYSTEM Radar type: AN/APA-44A. Performs accurate computations for nav. and bombing at alt. to 50,000 feet and provides visual steering and timing info. u/w such radars as AN/APS-23, APS-27, APS-31 and equiv.

X BAND SEARCH Radar type: AN/APS-10. Freq band: 9375 mHz. Pwr output: 10KW. Rep rate: 810 pps .8 microsec, 405 pps 2.2 microsec. 30 mc IF. Indicator: PPI. Ant: 360 deg az sweep. Pwr input: 115V 400cy Ref MIT Rad. Lab. Series Vol I pps 616-625, Vol II pps 171 to 181. Mfr: G.E. Price $750.00.

X BAND SEARCH Radar Type: AN/SPN-18. Freq Band: 9320-9430 mHz. Pwr output & range: 40KW, 40 mi. Magnetron type: 725A. Mod type: 4C35 thyratron. Rep rate: .25 microsec/2000 PPS, .65/800 PPS. Indicator: 16'' PPI. Pwr input: 115V 400cy AC or 115VDC. Mfr: RCA.

X BAND SEARCH Radar type: AN/SPS-46. Freq band: 9375 mHz. Pwr output & range: 7KW min, 32 miles. Indicator: PPI, 10''. Magnetron type: 2J42. Rep rate: .2/.4 microsec, 1500/750 PPS. Pwr input: 28VDC. Mfr: Lavoie.

X BAND SEARCH Radar type: Sperry MK II. Freq band: 9375 mHz. Pwr output and range: 40 KW, 0 to 20 mi. Indicator: 10'' PPI. Magnetron type: 2J55. Mod type: 4C35 thyr. Pwr input: 115V 60cy AC. Mfr: Sperry.

X BAND SEARCH Radar type: Sperry MK 3. Freq. Band: 9375 mHz. Pwr output: 75KW. Range: 0-40 miles. Indicator: 16'' PPI. Magnetron type: 4J52A. Rep rate: .1 or .4 microsec. 3000/750 PPS. Pwr input: 115V 60cy AC Antenna: 12' reflector. Mfr: Sperry. Price: $2200.00.

X BAND SEARCH Radar type: AN/APS-27 X band. Pwr output: 100KW. Freq: 9375 mHz. 60 mHz. IF, 10 mc BW. Rep rate: 200, 300, 775 pps ½, 1, 2 & 5 microsec MTI. Range: 200 mi. Antenna: 360 deg scan. Indicator: PPI. Compl w/all cables. Pwr input 115V 400cy AC. Mfr: W.E. Price $2800.00.

X BAND AIR SEARCH Radar type: AN/APS-21. Freq Band: 9375 mHz. Pwr. output, and range: 200 KW-200 mi. Indicator: PPI. Pwr input: 115V 400cy AC. Antenna: Sector scan 30-170 deg. Mfr. Westinghouse.

X BAND COMBINED SYSTEM Radar type: AN/APQ-35. Freq band: 9300 mHz. Indicator: PPI, C, O scopes. Pwr input. 115V 400cy AC. Mfr: Westinghouse. A combined fire control, 200 mi search and 4 mi tail warning system. c/o 3 radar sets. Used on F8U, A3D, F-10D aircraft.

X BAND AIRBORNE SEARCH Freq band: 9350 mHz. Pwr output: 40KW. Magnetron type: 725A. Mod type: 1B22 gap tube. Rep rate: .6 microsec/1000 pps 2/350 or 600 pps. Pwr input: 115V 400cy AC. Antenna: Sector scan. X = 150 deg Y = −10 to +30 deg. Mfr: W.E. Price $350.00.

X BAND HEIGHT FINDER Radar type: AN/TPS-10D. Freq band: 9230 to 9404 mHz. Pwr output and range: 250KW, 60/120 mi. Indicator: RHI. Magnetron type: 6002/QK221. Rep rate: .5 & 2 microsec 539 pps. Pwr input: 115V 400 cy AC. Mfr: RCA.

X BAND HEIGHT FINDER Radar Type: AN/APS-45. Freq Band: 9375 mHz. Pwr output: 400KW. Rep rate: 1.8 microsec .001 duty cy. Indicator: RHI. Mod: 5C22 thyratron. Pwr input: 115V 400cy. Mfr: Texas Instr. Price: $3800.00

X BAND RENDEZVOUS Radar type: AN/APM-11 & 12. Consists of an X band 50KW radar beacon and 200 mHz IFF transponder. Pwr input: 115V 400cy AC. As used on B-47 & KC97 aircraft.

RADAR SYSTEMS

X BAND BEACON Radar type: AN/UPN-4. Freq band: 9310 mHz. Pwr output and range: 300 watts peak, 30 mi. Magnetron type: 2J41. Mod type: 3D21A thyr. Rep rate: .5 microsec. Pwr input: battery. Antenna: omni array. Mfr: Gilfillian. $575.00.

X BAND BEACON Radar type: AN/DPN-32 X band transponder single or dbl pulse. Freq band: xmtr 9300-9500 mHz. Pwr output: 50W. Rep rate: .5 microsec. Magnetron type: QK362. Rcvr: 8500-9600 mc tuneable. Pwr input: 26V. Mfr: Avien.

X BAND BEACON Radar type: AN/DPN-62. Freq band: 9200-9500 mHz. Pwr output: 100 watts. Magnetron type: 7503. Rep rate: .5 microsec, 1500 PPS. Pwr input: 26VDC. Antenna: Scimitar. Mfr: G.I. Note: Pres transducer reads altitude.

X BAND HI POWER BEACON Radar type: AN/APN-69A. Freq band: 9310 mHz. Pwr output: 10KW. Magnetron type: 6233. Rep rate: .5 microsec, 3000 PPS. Pwr input: 115V 400 Hz AC. Mfr: Stromberg.

X BAND BEACON Radar type: AN/FPN-13. Freq band: 9200-9400 mHz. Pwr output: 7KW. Osc type: VA-82 klystron amp. Rep rate: .5 microsec .01 duty cy. Mod type: 4X-1000-A. Pwr input: 115V 60 cy AC. Mfr: Webster-Chicago. A coded transponder type beacon system.

X BAND GROUND BEACON Radar type AN/CPN-6. Freq band: 9310 mHz. Pwr output: 40KW. Range: 100 mi. Mod type: 5D21 or 4PR60A. Rep rate: .5 microsec. Variable pulse coding & delay. 56 codes, 2 to 6 pulses at 15 or 35 microsec delay. Pwr input: 115V 60 cy AC. Mfr: Motorola.

X BAND TRANSPONDER Radar type: Hughes AAI. Freq band: 9318 mHz. Pwr output: 120 watts. Magnetron type: L-3028C. Mod type: 3E29. Duty cycle: .027. Pwr input: 115V 400cy AC. Receiver is ampl-freq-convertor using 6315 klystron as L.O. and 5 stage IF amp.

X BAND TRANSPONDER Radar type: AN/APN-135. Freq band: 9310T-9375RmHz. Pwr output: 1KW. Magnetron type: L3259. Rep rate: .5 microsec 2800 PPS. Pwr input: 115V 400 Hz AC. Antenna: AT-921. Mfr: Bendix. Note: Used on B-58 aircraft.

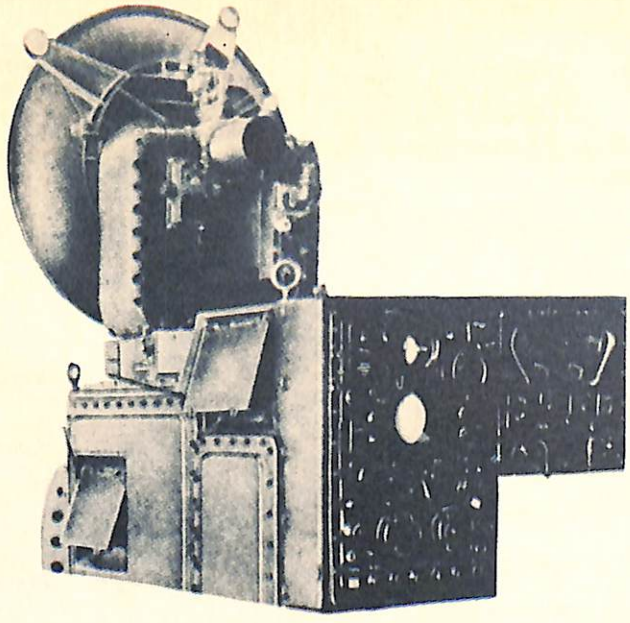
X BAND DATA LINK Type: AN/UPW-1. Pwr output: 400 watts pulse. Indicator: Meters for hdg & alt. Magnetron type: 6229. Rep rate: .003 duty cy. Pwr input: 115V 400 Hz AC. Mfr: Ford Instr.

K BAND

K BAND RANGE ONLY Radar type: E-34. Freq band: 24 gHz. Pwr output and range: 40 KW, 15,000 yds. Magnetron type: 6551. Mod type: 5957. Rep rate: .15 microsec 4000 PPS. Pwr input: 115V 400 cy AC. Antenna: Parabolic lens, simultaneous lobing. Mfr: Sperry. System incorporates range computer.

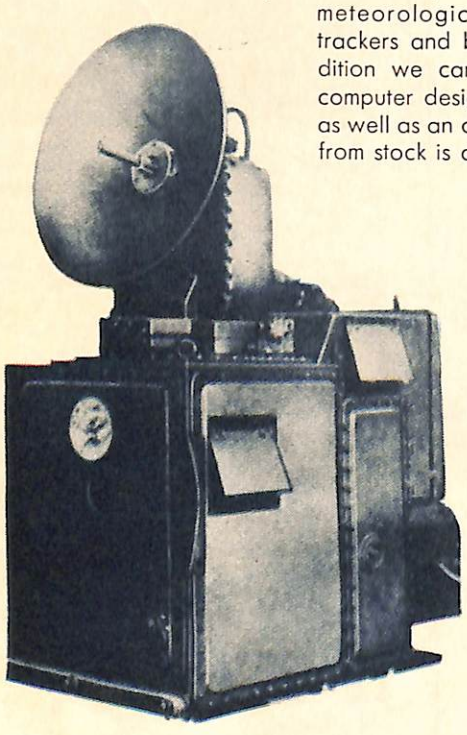
Ku BAND SEARCH Radar type: B-58 aircraft. Freq band: 16410-16625 mHz. Pwr output: 50KW. Indicator: PPI, 7''. Magnetron type: RK6841/QK-400. Rep rate: .33/1/3 microsec, 2016/672/2.24 PPS. Pwr input: 115V 400 Hz 3 ph. Antenna: 360 deg. az. Mfr: Raytheon. Note: Photo recorder uses sep. 3'' PPI. Ku Track also in stock.

AN/GPG-1 "SKYSWEEPER" AUTO-TRACK RADAR



The Sperry "Skysweeper" is an ideal, complete, automatic tracking radar package. It is compact, self-contained and weatherproof for mounting in a penthouse or on the back of a small truck. It can be put on casters and easily rolled around a lab. The entire antenna section can be dismounted for use separately. All controls and test points are accessible from the operating panel. Each sub-system is modularized for easy maintenance and modification. Supplied in "factory new" condition at a very small fraction of original government cost.

These systems have been sold by us for a variety of radar applications including meteorological balloon trackers, drone trackers and basic radar research. In addition we can supply an analog balistic computer designed for use with this system as well as an optical tracker. Also available from stock is an acquisition target selector.

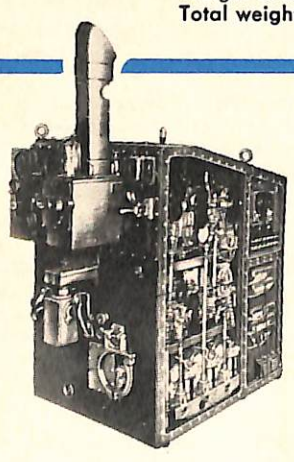


Radar Tracker T-9

Frequency	8400 to 9600 megacycles
Pulse width	0.25 microsec
Pulse repetition rate (nominal)	3,800 pulses/sec
Peak power output	40 kw
Power requirements	115 v, 60 cy 3-phase, ac 3 kw
Accuracy	.5 mil apx
Readout	PPI, J, Computer in
Range search (maximum)	24,000 yds.
Range, automatic tracking (maximum)	22,000 yds.
Range (minimum)	300 yds.
Lower elevation limit	—175 mils
Upper elevation limit	1,550 mils
Azimuth coverage	Continuous 6,400 mils
Speed of antenna nutator (nominal)	3,600 rpm
Rotation of scanner (maximum, apx)	60 rpm
Tracking rates, automatic or manual:	
Elevation angle	800 mils/sec
Azimuth angle	1,600 mils/sec
Slant range	450 yd/sec
Height (scanner erect)	80 in.
Height (scanner stowed)	50 in.
Weight of scanner assembly	350 lb.
Weight of antenna drive assembly	120 lb.
Total weight	1,870 lb.

TARGET SELECTOR T1E2

Type .....Tripod-mounted, optical
Elevation coverage.—200 mils to 1,600 mils
Azimuth coverage.Continuous to 6,400 mils



COMPUTER T27E2

Type .....Electro-mechanical
Present altitude coverage.—2,000 to 11,500 yds.
Present azimuth coverage.Continuous 6,400 mils
Present elevation coverage..—200 to 1,500 mils
Present slant range coverage..50 to 11,500 yds.
Target speed.....0 to 1,350 fps
Projectile time of flight.....0 to 15 sec.
Quandrant elevation.....—200 to 1,550 mils
Firing azimuth.....Continuous 6,400 mils
Wind velocity.....0 to 60 mps
Muzzle velocity correction.....—200 to 200 fps
Air density correction.....—20 to 20 percent
Trunnion tilt correction.....8.5 deg.
Spot corrections:
Quadrant elevation.....—100 to 100 mils
Firing azimuth.....—100 to 100 mils
Slant range.....—1,000 to 1,000 yds.
Power requirements.....115v, 60c, 3-phase, ac
Total weight (w/periscope T33).....1,900 lbs.

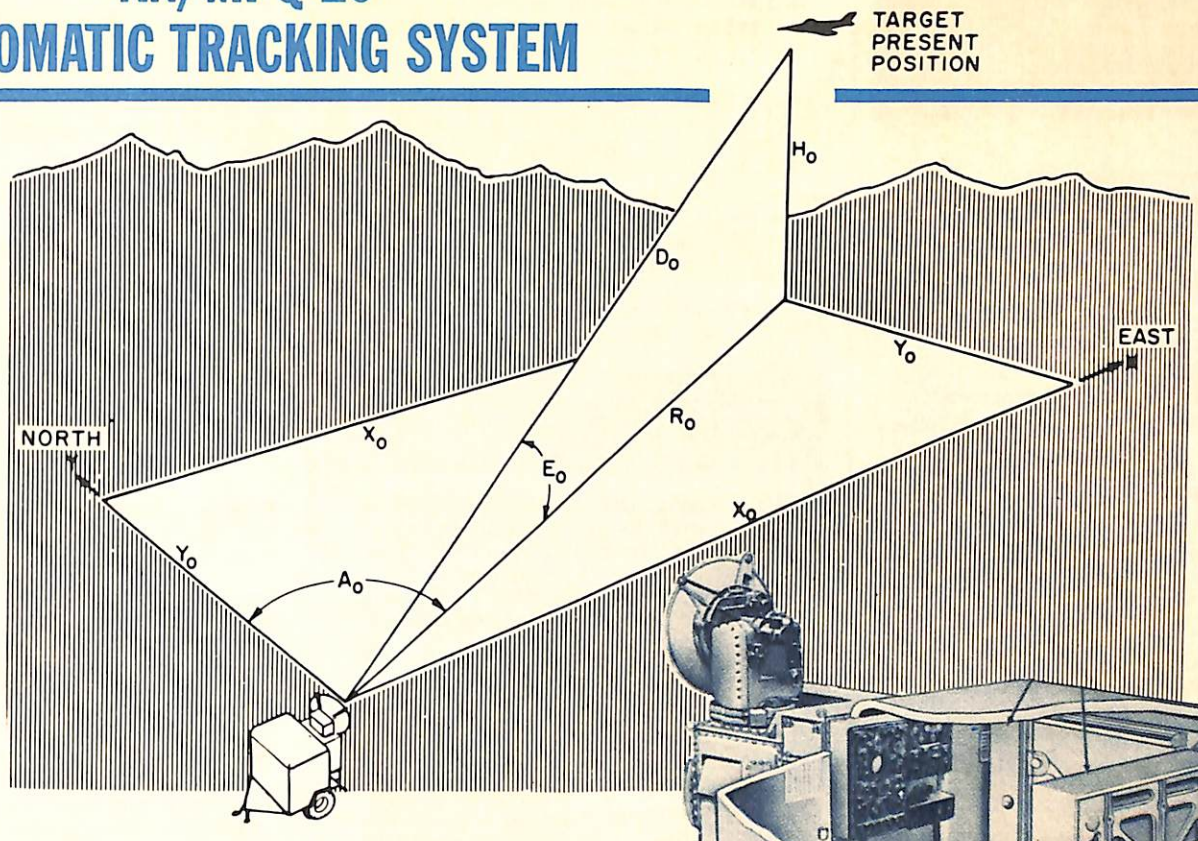
We can supply the complete gun mount assembly (less gun) known as the T-38. This mount with the AN/GPG-1 Skysweeper and T27E2 computer, T-33 optical tracker, T1E2 target selector comprise a complete system.

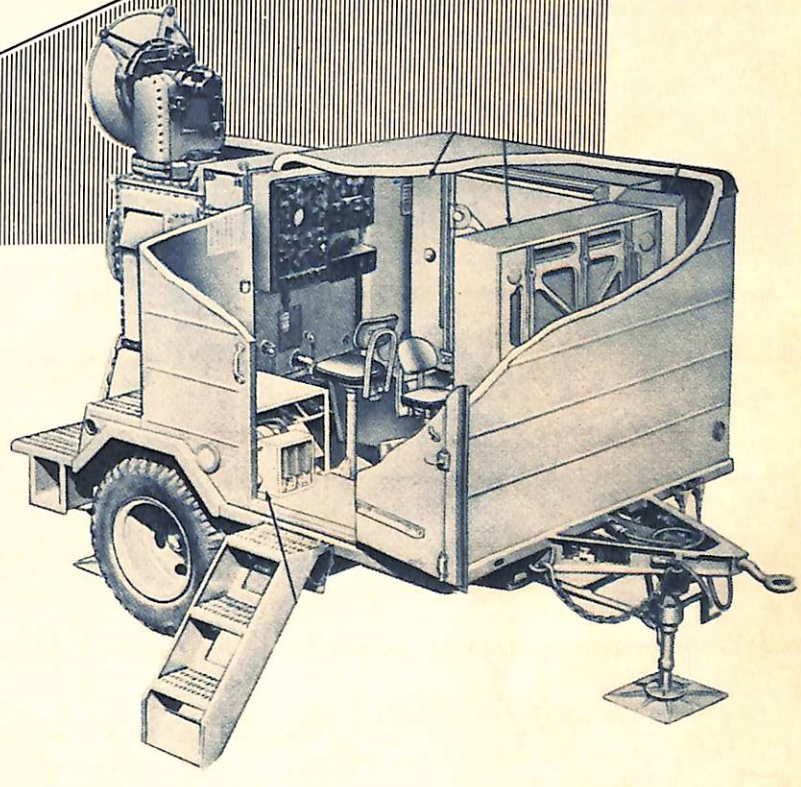
OPTICAL TRACKER T33

Azimuth coverage...Continuous 6,400 mils
Elevation coverage.—200 mils to 1,600 mils
Magnification .....2 power
Field of view.....30 deg.
Weight .....128 lbs.

Radio Research Instrument Co., Inc.,
3 Quincy Street, Norwalk, Connecticut 06850 Telephone (203) 853-2600

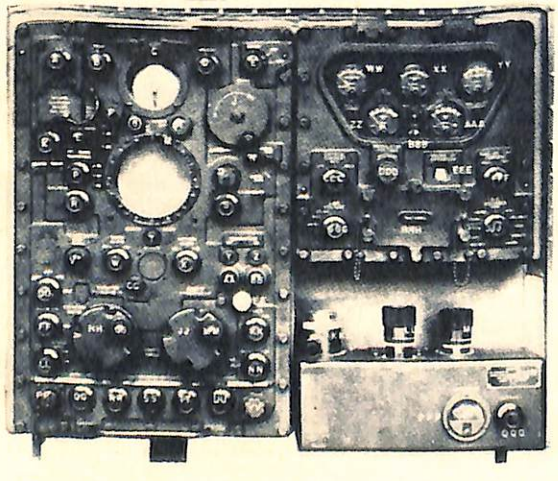
AN/MPQ-29
AUTOMATIC TRACKING SYSTEM





AN/MPQ-29 AUTOTRACK

Frequency	8500 to 9600 mHz.
Pulse width	0.25 or 0.50 microsec
Separation between dual pulses (beacon operation)	3.0 or 1.5 microsec
Pulse repetition rate (nominal)	1000 pulses/sec
Peak power output	40KW nominal
Power requirements	115V 60 cycles, 3 phase
Range search (maximum)	100,000 yds
Range, automatic tracking (maximum)	100,000 yds
Range (minimum)	300 yds
Lower elevation limit	—175 mils
Upper elevation limit	1,550 mils
Azimuth coverage	Continuous 6,400 mils
Speed of antenna nutator (nominal)	1500 or 1800 PM
Search speed (nominal)	60 RPM
Tracking rates, automatic or manual:	
Elevation angle	750 mils/sec
Azimuth angle	1,500 mils/sec
Slant angle	600 yard/sec
Computer data:	
Data takeoff	Resolvers, azimuth and elevation 10 turn linear pot, range
Altitude readout	0 to 100,000 ft
Climb-dive meter	1,500 ft per sec maximum



The system is a trailer mounted unit capable of searching for, automatically tracking, and plotting airborne targets within a range of 100,000 yards. Includes a solid state analog computer, and an optical tracking aid. Originally used for surveillance drone control, it is ideal for a multitude of autotrack applications. The radar can be used in four modes: search, sector scan, beacon track or skin track. A unique feature of the MPQ-29 is its ability, when used with a target equipped with a AN/DPN-62 beacon (in stock), to present to the operator the barometric altitude of the target. An optical target selector allows the operator to select a target and automatically transfer the angle information to the antenna positioning circuits causing the antenna to slew to the selected target. The computer is an A-C analog type which receives polar coordinate data from the radar and converts it to rectangular ground coordinates and altitude. This information is displayed on the 2 plotting boards as either a permanent plot or as an illuminated cross hair shadow on a map. The altitude information is corrected for radar height, and earth's curvature and displayed on a numerical readout

RF PACKAGES

CW SOURCES

170 to 600 kHz. Pwr output: 500 watts. Modulator type: CW, A2, A3. Power input: 440V 60cy. AC. Mfr: G.E. Price: $575.00

Freq: 350-500KC. Pwr output: 200-300 watts. Osc tube: 807. Rep rate: CW/MCW. Pwr input: 115VDC. Mfr: RCA.

Freq: 300 kHz-22 mHz. Prw output: 200W CW. Mod type: CW, MCW, ICW. Pwr input: 115V 60cy AC. Mfr: RCA, type 4U.

Freq: 2-22.14 mHz Pwr output: 200 watts. Osc tube: 807. Rep rate: CW/A2. Pwr input: 115V DC. Mfr: RCA.

Freq: 2-24 mHz Pwr output: 230 watts. Osc tube: 4X150. Mod type: AM-AME. Pwr input: 115V 400cy; 28VDC. Mfr: RCA.

Freq: 2 to 30 mHz Pwr output: 3 KW. Osc tube: Pr 4-1000A. Mod type: 4-1000A. Pwr input: 220V 3ph 60cy. Mfr: RCA.

Freq: 4-21 mHz. Pwr output: 40KW CW. Osc tube: PR GL-880 PA. Mod type: CW, MCW, FSK. Pwr input: 230V 50/60cy AC. Mfr: Press Wireless, type PW-40A.

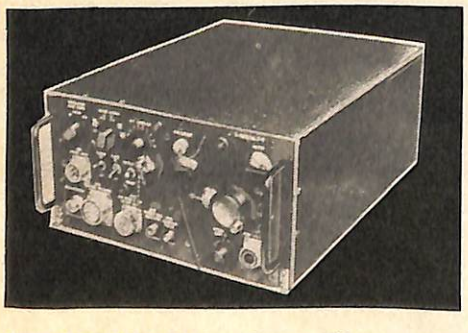
Freq: 30-60 mHz Pwr output: 20KW. Osc tube: 6166 (2 ea). Mod type: CW & SSB. Pwr input: 220V 60 cy AC. Mfr: Collins Model 205G1.

Freq. 25 to 105 mHz Pwr output: 30 watts nom. Osc tube: 832. Pwr input: 115V 400 cy AC. Price $125.00.

Freq: 115-156 mHz. Pwr output: 25-50W. Osc tube: 4X-100-A. Mod type: CW, MCW, Voice. Pwr input: 115V 60cy AC. Mfr: Westinghouse, type URT-7. Price: $750.00.

Freq: 110-120 mHz Pwr output: 200 watts. Input: 230V 60cy AC and 3 KVDC. A power amplifier.

Freq: 100 to 800 mHz LAF-3 signal gen. Osc tube: lighthouse planar triode. Lab. instrument. Prec calib att. Reg pwr supply. 115V 60cy AC input. $175.00.



Freq: 160-350 mHz Pwr Output: 100 watts nom. Osc Tube: 6161. Rep Rate: CW. Pwr Input 6161 Supply req'd. Mfr: Hallicrafters.

Freq: 225-400 mHz Pwr output: 10 watts. Osc tube: 2C39A. Mod type: CW, AM. Pwr input: 28VDC. Mfr: Collins.

Freq: 200-400 mHz Pwr Output: 15 to 25 watts CW. Osc Tube: 2C39A. Input: 115V 60cy AC. Mfr: Collins Radio.

Freq. 200 to 400 mHz Pwr output: 25 to 50 watts. Osc tube: 4X-100-A. Pwr input: 115V 60cy AC. $750.

Freq: 200-2000 mHz Pwr output: 30-50 watts CW. Osc tube: 3CX100A5. Mod type: CW, Pulse, Sq. Wave, 1000 cy and 400 cy. Pwr input: 115V, 60Hz AC. Mfr: FXR Microlab.

Freq. 200 to 2400 mHz Pwr output: 30 watts nom. Osc tube: 2C39A. Pwr input: req 2C39A DC supply. Mfr: W. L. Maxson. Price $575.00.

Freq: 400-550 mHz. Pwr output: 35 W. Mod type: FM. Pwr input: 28VDC.

Freq: 385-585 mHz Pwr output: 1 to 2 KW. Osc tube: Eimac 3KM 3000. Rep rate: CW. Pwr Input: 220V 60cy AC. Mfr: Motorola.

Freq: 400-2400 mHz Pwr output: 1KW CW. Osc tube: 3K3000 LQ klystron (not supl.). Pwr input: 208V Hz AC. Mfr: R.E.L.

Freq: 450-600, 750-1200 mHz Pwr output: 40 watts. Osc tube: 2C39B. Pwr input: 115V 60 Hz AC. Mfr: REL.

Freq: 1000-10,000 mHz Pwr output: up to 1 watt. Osc tube: L Band 2C36, S Band A-15143, C Band SK-115, X Band 6312. Pwr input: 115V 3 ph 400 Hz. Mfr: Sylvania. Note: Test bench for AN/ALR-12 B-58 ECM system.

Freq: 1018-1042 Pwr output: 20 watts. Osc tube: 4CN15A. Mod type: Pulse pairs. Pwr input: 115V, 60cy AC.

Freq: 950-1525 mHz Pwr output: 150 watts CW. Osc tube: L3115 magnetron. Pwr input: 115V 400Hz AC. Mfr: G.E.

Freq: 1gHz, 2gHz, 5gHz Pwr output: 20-120 watts CW Osc tube: VA 802, VA 834 Crystal controlled. Emission. AO (CW), A1 (On-off keying) Pwr input: 115V 60cy AC. Mfr: REL.

Freq: 800-4000 mHz Osc Tube: 1.8-4 gHz type 2K28. .8-2 gHz type 5837. Mod Type: CW, "N" output. Pwr input: 115V 60cy AC. Mfr: Boonton.

Freq: 1200 to 1350 mHz SM-65/UP MTI Test set. Osc. tube: 2C39A. Pwr input: 115V 60cy AC. Generates L band signal for checking freq, pwr, RF pulse env, range marker accuracy, etc. $225.00.

Freq: 1700-1850 mHz Pwr output: 10 watts. Rep rate: CW. Pwr input: 115V 60cy AC. Mfr: G.E.

Freq: 1700-2400 mHz Pwr Output: 10 KW. Osc. Tube: 4KM 50,000 SG. Mod Type: CW. Pwr Input: Supply Req'd. Mfr: REL type AM-1671/FRC-56.

Freq: 2100-4200 mHz Osc Tube: 6BL6. Mod Type: CW. Pwr Input: Supply Req'd. Mfr: Weinchel Model MS-9.

Freq: 2200-2300 mHz Pwr output: 5 watts CW. Osc tube: Voltage tuneable mag. G.E. Z5312. Mfr: Philco W.D.L.

Freq: 2.4-3.6 gHz and 8.8-10.5 gHz Pwr output: 300-600W CW. Osc tube: CW magnetrons. Pwr input: 115V 60cy AC. Mfr: Bogart.

Freq: 2400-3600 mHz Pwr Output: 150 W. Osc Tube: L3110. Mod Type: CW. Pwr Input: 115V 400cy AC. Mfr: G.E.

Freq: 2300-4105 mHz Pwr Output: 150 W nom. Osc Tube: Magnetron QK459, QK460. Mod Type: CW. Pwr Input: 115V 400cy AC. Mfr: G.E.

Freq: 3200-4100 mHz Pwr output: 150W nom. Osc tube: QK460 mag. Mod type: CW. Pwr input: 115V 400 Hz AC. Mfr: G.E.

Freq. 3700 to 4200 mHz Pwr output: .5 watts (23 dbm min.) Osc tube: 416B & 2C43 Xtal control. Pwr supply reqd. Mfr: W.E. Price $475.00.

Freq: 4200-4400 mHz Pwr output: 1 watt CW. Osc tube: 6177. Pwr input: Reg. 350VDC. Mfr: Sylvania.

Freq. 4400 to 5500 mHz Pwr output: 3 watts nom. Osc tube: Klystron. Pwr input: 115V 60cy AC. Mfr: Raytheon. Price $650.00.

Freq: 5000 mHz Band Pwr output: 5 W. Osc tube: Eimac klystron. Rep rate: CW. Pwr input: 115V 60cy AC. Mfr: Philco.

Freq: 4400-5000 mMz Pwr output: 2KW. Osc tube: VA-804 klystron. Mod type: CW. Mfr: Westinghouse.

Freq. 7125 to 7425 mHz Pwr output: 1 watt nom. Osc tube: Varian klystron. Pwr input: 115V 60cy AC. Mfr: Philco. Price $1500.00.

Freq: 7125-8400 mHz Pwr output: 1 watt Osc tube: VA224D, Mod type: FM Pwr input 115V. 50/60 or 400 cps 1 ph. Mfr: Philco.

Freq: 7425-7750 mHz Pwr output: 1 watt. Osc tube: VA-222A. Mod type: CW, FM. Pwr input: 115V 60 Hz AC. Mfr: Philco.

Freq: 7125-7750 mHz Pwr output: 2KW CW. Osc tube: VA 1556 klystron. Water cooled, arc detector ckt, and various RF protection ckts. Heat exchanger also included. Pwr input: 115V 3ph, 60cy AC. Mfr: Sierra/Philco.

Freq: 8500 to 9600 mHz TS-35A/UP X band sig gen. Osc tube: 2K25. Pwr input: 115V 60cy AC. Incl freq meter, pwr bridge, calib att, sq wave gen, reg pwr supply. Very compact, X band portable, carrying case. Used on M-33 and Nike Systems. Mfr: W.E. $165.00.

Freq: 8.2-11.5 gHz. Pwr output: .6W CW. Osc tube: V-55 klystron. Mod type: CW doppler. Pwr input: 115V 400cy AC. Mfr: G.E.

Freq: 8.8-10.5 gHz and 2.4-3.6 gHz. Pwr output: 300-600W nom. CW. Osc tube: CW magnetrons. Pwr input: 115V 60cy AC. Mfr: Bogart.

Freq: 8800-10,500 mHz Pwr Output: 100-175 watts. Osc. Tube: L-3046. Mod Type: CW. Pwr Input: 115V 60cy AC. Mfr: Dayton Electr.

Freq: 9125-8125 mHz Pwr output: 150 milliwatts. Osc tube: QK 422. Mod type: CW, FM. Pwr input: 115V 60 Hz AC. Mfr: Motorola.

Freq: 8990 to 9170 mHz TS-263/TPS-10 signal gen. Osc tube: 2K25. Pwr input: 115V 60cy AC. Freq meter, calib att, sawtooth gen, pwr meter, reg pwr supply. $125.00.

Freq: 15,250 to 16,250 mHz TS-743/U signal gen. Osc tube: reflex klystron. Pwr input: 115V 60cy AC. CW, pulse, FM operation. Calib att, etc. Compl Ku band sig gen test set. Mfr: Polarad. $475.00.

Freq: 16-17 gHz Pwr output: .40 watts. Osc tube: VA-94 klystron. Mod: CW or Pulse. Pwr input: 115V 3 ph 400cy. Mfr: Aircraft Armaments Inc.

H.F. PULSE

Freq: 5-30mHz Pwr output:1 KW.Osc tube: 4-250A. Rep rate: 500-2500 msec, 20 pps. Pwr input: 115V 60cy 1 ph AC. Mfr: Raytheon. $2800.00

U.H.F. PULSE

Freq. 150 to 180mHz Pwr output:1KW. Osc tube: pr 2C26. Mod type: 3E29. Rep rate: 4 to 9 microsec 240 ps. Pwr input: 115V 60cy AC. Mfr: Raytheon. Price $1200.00.

155-190 mHz Pwr Output: 1.5 KW. Rep Rate: 10 microsec, 25-500pps. Pwr Input: 115V 60cy AC. Mfr: Hazeltine.

160-240 mHz Pwr Output: 500 watts: Osc Tube 2C26A. Rep Rate. 4 to 7 microsec 175 pps. Pwr Input: 115V 400 cy mc. Mfr: Olympic.

Freq: 175 to 225 mHz Pwr output: 300KW. Osc tube: Pair 527 triodes. Mod type: 5C22 thyr. Rep rate: 1, 4, 20 microsec 120 PPS. Pwr input: 115V 60cy AV. Mfr: Westinghouse. Price: $1500.00.

Freq. 195 to 225mHz Pwr output: 200KW. Osc tube: 4 ea 327A. Rep rate: 5 microsec 60 pps. Pwr input: 115V 60cy AC. Mfr: G.E. Price $750.00.

Freq: 210-225 mHz Pwr output: 1 megawatt. Osc tube: 4 ea 527 tubes. Mod type: 5949 thyr. Rep rate: 5 microsec, 170-190 pps. Pwr input: 115/208V 60cy 3 ph. Mfr: Hazeltine.

290-330 mHz Pwr Output: 30 KW nom, 75 W CW. Osc Tube: PR 4C28. Mod Type: 3E29. Rep Rate: .6 microsec, .004 D.C. Pwr Input: 115V 400cy AC. Mfr: RCA.

440 mHz Pwr output: 10-50 watts. Rep rate: 2-3 microsec. Pwr input: 115V 400cy. Mfr: RCA.

400-420 mHz Pwr output: 14KW. Osc tube: 4621. Mod type: 3D21. Rep rate: .0002 Duty Cy with pulse width to 3 microsec. Pwr input: 115V 400 Hz AC. Mfr: Bell Aerospace.

Freq. 420 to 460mHz Pwr output: 5KW. Osc tube: 4X150G. Mod type: 3C45 thyr. Rep rate: .5 microsec 1.5 to 9KC. Pwr input: 115V 400cy. Mfr: Motorola. Price $1800.00.

406-450 mHz Pwr output: 2 megawatts. Osc tube: QK 516. Rep rate: .002 duty cy. Pwr input: 510V 60 Hz AC. Mfr: G.E.

L BAND PULSE

Freq: 500 to 3000mHz Pwr output:1 milliwatt min. Osc tube: 5837 klystron. Rep rate: 1030 cps, 100 microsec. pwr input: 115V 60cy AC. Mfr: Litton.

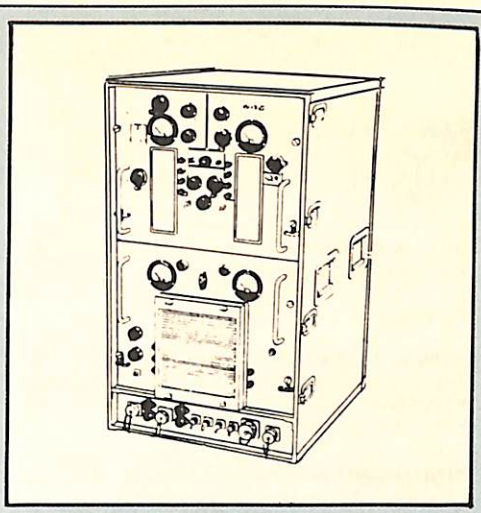
950 to 1150mHz Pwr output: 1KW. Osc tube: 2C39A. Mod. type: 3E29. Rep rate: . .005 D.C. Pwr input: 115V 400cy AC. Mfr: Packard-Bell. $375

1010 to 1030 mHz Pwr output: 1KW. Osc tube: 2C39A. Mod type: 3E29. Rep rate: .1 duty cy. Pwr input 115V 60cy AC. Mfgr: G.E. Price $750.00.

1025-1150 mHz Pwr output: 1KW. Osc tube: 2C39. Rep rate: 400 PPS Tacan. Pwr input: 115V 400cy; 28VDC. Mfr: RCA, ARN-21.

1015-1045 mHz Pwr Output: 50 W to 1.5 KW nom. Osc Type: Solid State. Rep Rate: .8 microsec, 150-425 PPS. Pwr Input: 115V 60cy AC.

1090 mHz Pwr output: 1KW peak. Osc tube: 2C39A. Mod type: 3E29. Rep rate: .1 duty cy. Pwr input: 115V 400cy AC. Mfr: Philco.



990 to 1040mHz Pwr output:5, 10, or 20KW. Osc tube: 2C39A. Mod type: 3C45 thyr. Rep rate: .7 to 1.2 microsec 180 to 400 pps. Pwr input: 115V 60cy AC. Mfr: ITT. Price $1400.00.

1200 to 2400 mc Pwr output: 100 watts. Osc tube: 2C38. Mod type: 829B. Rep rate: 1.5 to 7 microsec. Pwr input: supply reqd. Mfr: Gen'l Comm. $975.

1200 to 1350 mc Pwr output: 500KW. Osc tube: 5J26. Mod type: 5C22 thyr. Rep rate: 2 microsec 400 pps. Pwr input: 115V 400cy AC. Mfr: Raytheon. Price $2200.00.

1200 to 1350mHz Pwr output: 500KW. Osc tube: 5J26. Mod type: 5C22 thyr. Rep rate: 2 microsec 400 pps. Pwr input: 115V 60cy AC. Mfr: Westinghouse. Price $3500.00.

S BAND PULSE

2100 to 3800mHz Pwr output:100 watts. Osc tube: 2C38. Mod type: 829B. Rep rate: 1.5 to 7 microsec 2500 pps. Pwr input: Pwr supply req. Mfr: Gen'l Comm. Price $975.00.

2400 to 2600mHz Pwr output: 1 to 2KW.Osc type: 2C43. Mod type: 3E29. Rep rate: ¾ microsec 1200 pps. Pwr input: 115V 400cy AC. Mfr: G.E. $275.

2800 to 2900mHz Pwr output:100 watts. Osc tube: 2C40 lhts. Mod type: 2D21 thyr. Rep rate: ¾ microsec 2000 pps. Pwr input: 26VDC. Price $225.00.

3300 mHz Pwr output: 200 watts. Osc tube: 2C40 lhts. Mod type Rep rate: .4 microsec 600 pps. Mfr: Philco. Price $275.00.

2700 to 2950mHz Pwr output: 135 watts peak.Osc tube: 2C40 lhts. Mod type: 2D21 thyr. Rep rate: .8 microsec 410 pps. Pwr input: req 350V 70ma & 80V 10ma. Mfr: Emerson. Price $575.00.

2800mHz Pwr output: 1KW Osc tube: 2C39A. Mod type: pr 4X150A. Rep rate: 250 to 4000 pps 1 microsec. Pwr input: 115V 60cy AC. Mfr: Melpar. $975.

3250mHz Pwr output:10KW. Osc type:2J38 mag. Mod type: 715B hard tube. Rep rate: 1 microsec .012 duty cy. Pwr input: 115V 60cy AC. Mfr: Motorola. Price $1400.00.

3267-3333 mHz Pwr Output: 10KW. Osc Tube: 2J39 magnetron. Mod Type: Gap tube, 5A-6.5KV. Pwr Input: 115V 400cy AC. Mfr: W.E. Co.

3070mHz Pwr output: 20KW.Osc type: 2J70 mag. Mod type: 4C35 thyr. Rep rate: .65/.25 microsec 800/2000 pps. Pwr input: 115V 400cy AC. Mfr: RCA. Price $1400.00.

3000-3300 mHz Pwr output: 50KW. Osc tube: 2J62 mag. Mod type: 4PR60A hard tube. Rep rate: .5 microsec, 1800 PPS. Pwr input: 115V 60cy AC. Mfr: W.E.

2950-3450 mHz Pwr output: 75KW nom. Osc tube: 706 magnetron. Mod. type: 304TL. Rep rate: 1 microsec 400 pps. Pwr input: 115V 60cy AC. Mfr: Raytheon.

2900 to 3100 mHz Pwr output: 75KW. Osc tube: 2J27 mag. Mod type: spark gap. Rep rate: 1 microsec 400 pps. Pwr input: 32VDC. Mfr: Raytheon. Price $750.00.

3000 to 3300 mc Pwr output: 75KW. Osc tube: 706 mag. Mod type: 5D21 hard tube. Rep rate: 1 microsec 1000 pps. Pwr input: 115V 60cy AC. Mfr: W.E. Price $475.00 less Power supply

2800 to 3300 mHz Pwr ouput: 250KW. Osc tube: 2J32 mag. Mod type: 6C21 hard tube. Rep rate: .8 microsec 1600 pps. Pwr input: 115V 60cy AC. Mfr: G.E. Price $3950.00.

2700-2900 mHz Pwr Output: 500KW. Osc Tube: 5586 mag. Mod Type: 6C21 thyr. Rep Rate: .25/.8, 233 to 2563 pps. Pwr Input: 115V 60cy AC. Mfr: Reeves Inst.

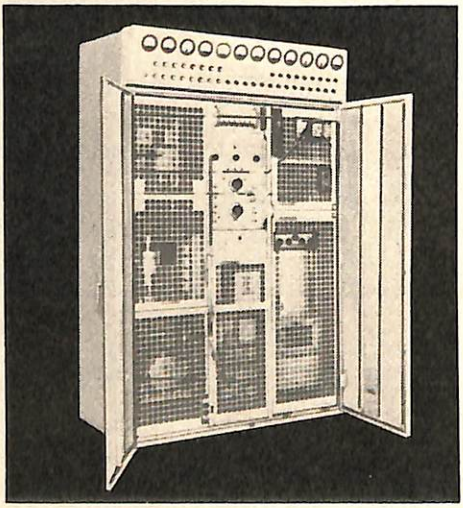
2700-2900 mHz Pwr output 250-650 KW. Osc tube: 5586 magnetron. Mod type: 6C21. Pwr. input: 115V 60cy AC. Mfr: Reeves Instr.

2700 to 2900 mHz Pwr Output: 500KW nom, 500 W avg. Osc Tube: 5586 magnetron. Mod Type: 5949 thyratron. Rep Rate: 1 microsec 900 pps. Misc: Stalo, MTI, 30 mc IF, coho, ferrite isolator. Pwr Input: 208V 3ph 60cy AC. Mfr: Bendix.

3400-3700 mHz Pwr output: 500 KW. Osc. tube: 4J36 magnetron. Mod Type: 5C22. Rep Rate: 1 microsec 400 pps. Pwr Input: 115v 60cy AC. Mfr: Westinghouse.

2700-2900 mHz tunetable. Pwr output: 550 KW. Osc. tube: 5586. Mod type: 5949 thyr. Rep rate: 1200 pps, 83 microsec. 10012 duty cy. Pwr. input: 120/208V AC 3 ph. Mfr: GE.

Freq: 2880 mHz Pwr output: 750KW. Osc. tube: 4J31 mag. Mod type: 4C35's & 1B41 gap tube. Rep rate: 2 microsec, 300 pps. Pwr input: 208V 3ph 60cy. Mfr: G.E. Price: $1200.00.



2700-2900 mHz Pwr Output: 1 megawatt. Osc Tube: V-87B klystron. Rep rate: 1 microsec, 1200 pps. Pwr input: 120/208 60 cy. AC. Mfr: Bendix.

3400 to 3600 mHz Pwr output: 750KW. Osc tube: 6402 mag. Mod type: 5948 thyr. Rep rate: 2 microsec 500 pps/1 microsec 1000 pps. Pwr input: 440V 60cy AC. Mfr: G.E. $6,500

2700-2900 mHz Pwr output: 800KW. Osc tube: 5586 mag. Mod type: 5C22. Rep rate: .8 microsec, 1200 PPS. Pwr input: 120V 60cy AC. Mfr: Bendix.

3100 to 3500 mHz Pwr output: 1 megawatt. Osc tube: 5795 mag. Mod type: 5948 thyr. Rep rate: 1.3 microsec 1000 pps. Pwr input: 115V 400cy AC. Mfr: W.E.

2700 to 2900 mHz Pwr output: 1 megawatt. Osc tube: 5586 mag. Mod type: 5948 thyr. Rep rate: 1 microsec/600 pps 1 or 2 microsec/300 pps. Pwr. input: 120V AC. 60cy Mfr: G.E.

Freq: 2700-3020 mHz Pwr output: 2 megawatts. Osc tube: QK-254 magnetron. Mod type: 5948 thyratron. Rep rate: 2 microsec 300 PPS. Pwr input: 208V 60cy AC. Mfr: G.E.

2700-2900 mHz Pwr output: 5 megawatts. Osc tube: QK 338A mag. Mod type: 5948 thyratron. Rep rate: 2-3 microsec, 300-400 PPS. Pwr input: 120/208 60 Hz AC. Mfr: G.E.

C BAND PULSE

Freq: 5400-5900 mHz. Pwr output: 500W. Osc tube: BLM-017 magnetron. Duty cycle: .002. Pwr input: 29VDC. Mfr: ACF.

5450-5825 mHz Pwr output: 190 to 285 KW. Osc tube: QK235 magnetron. Mod type: 5C22 thyr. Rep rate: .25, 1.3, 2.25 microsec 650/625 pps. Pwr input: 115V 60cy AC. Mfr: Sylvania.

5665-5715 mHz Pwr output: 1 megawatt. Osc tube: QK1214. Mod type: 7131XD2. Rep rate: 1, 0.5, or .25 microsec, .001 duty cycle. Pwr input: 115V 3 ph 60 Hz. Mfr: RCA type FPS-16.

6425 mHz Pwr output: 210KW. Osc tube: 4J58. Mod type Req. 4.85KV 97A pulse, .001 duty. Pwr input: 115V 60Hz Ac. Mfr: Raytheon.

6275 to 6575 mHz Pwr output: 125KW. Osc tube: Magnetron. Mod type: 4C35 thyr. Input: 115V 60cy AC. Mfr: Raytheon. Price $1800.00.

6275 to 6575 mHz Pwr output: 175 to 285 KW. Osc tube: 4J57 mag. Mod type: 5C22 thyr. Rep rate: .37 microsec 683 pps. Pwr input: 115V 60cy AC. Mfr: Raytheon.

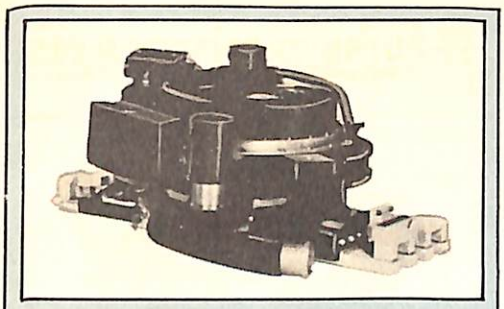
Freq: 6000 mHz. Pwr output: 1 megawatt. Osc tube: QK-241 magnetron. Mod type: 5949 thryatron. Rep rate: 1 microsec, 1000 PPS. Pwr input: 115V 60cy AC. Mfr: Sperry.

X BAND PULSE

8700-8900 mHz Pwr Output: 1.2 KW Osc Tube: RK 6248. Mod Type: 4PR60A. Rep Rate: .9 microsec 50 KC. Pwr Input: 115V 400cy AC. Mfr: G.P.L.

9300 to 9500 mHz Pwr output: 50 watts. Osc tube: QK362 mag. Rep rate: .5 microsec. Pwr input: 26VDC. Mfr: Avien. Price $575.00.

9200-9500 mHz Pwr output: 100 watts. Osc tube: 7503 mag. Mod type: 5727. Rep rate: 0.5 microsec, 1500 PPS. Pwr input: 26VDC 2.2 amps. Mfr: General Inst. & Sperry Utah.



8800 mHz PULSE DOPPLER Pwr output: 10 watts average. Osc tube: L3089 mag. Mod type: 3E29 hard tube. Rep rate: 1 to 3 & 4 microsec 55 to 240 KC. Pwr input: 115V 800cy AC. Mfr: G.P.L. $875.

Freq: 9315 mHz Pwr output: 120 watts. Osc tube: L-3028C magnetron. Mod type: 3E29. Duty cycle: .027. Pwr input: 115V 60cy AC. Mfr: Hughes.

9310 mHz Pwr output: 300 watts Osc tube: 2J41 mag. Mod type: 3D21A thyr. Rep rate: .5 microsec. Pwr input: Batt. opr. Price $475.00.

8900-9400 mHz Pwr output: 1KW. Osc tube: QK790 mag. Mod type: 1258. Rep rate: .001 duty cycle. Pwr input: 115V 400cy 3 ph AC. Mfr: Ford Instr.

8900-9400 mHz Pwr output: 400 watts. Osc tube: 6229 mag. Mod type: 3E29 hard tube. Rep rate: .003 duty cy. Pwr input: 115V, 400 Hz AC. Mfr: Ford Instr.

9310 mHz Pwr output: 1KW. Osc tube: L3259 mag. Mod type: Solid state. Rep rate: .5 microsec 2800 PPS. Pwr input: 115V 400 Hz AC. Mfr: Bendix Pacific.

8700-8900 mHz Pwr output: 1.2 KW. Osc tube: 6248 mag. Mod type: 4PR60B hard tube. Rep rate: .045 duty cy. Pwr input: 115V 400 Hz AC. Mfr: G.P.L.

Freq: 9310 mHz Pwr Output: 5KW. Osc Tube: V-82 klystron amp. V-45 driver osc. Rep Rate: .5 microsec. Mod Type: 4X-1000A. Note: Includes 18 KV 2 amp klystron power supply. Input: 115V 60cy AC.

9310 mHz Pwr output: 10 KW. Osc tube: 6233 mag. Mod type: 4PR60A hard tube. Rep rate: Code groups up to 3000 PPS at .5 microsec .003 duty cy. Pwr input: 115V 400 Hz AC. Mfr: Stromberg Carlson.

9320 mHz Pwr output: 10KW. Osc tube: 2J42. Mod type: 3C24. Rep rate: .2/.4 microsec, 1500/750 PPS. Pwr input: 28VDC. Mfr: Lavoie.

9375 mHz Pwr output: 10KW. Osc tube: 2J42 mag. Mod type: 3C45 thyr. Rep rate: .8 microsec/405 pps 2.2 microsec/810 pps. Pwr input: 115V 400cy AC. Mfr: G.E. Price $375.00.

9000-9600 mHz. Pwr output: 30 KW. Osc tube: VA-910E. Duty cy: .3. Pwr input: 115V 400cy. Mfr: Westinghouse. RF head of "Bomarc" missile. Contains compl radar front end, etc.

9245 mHz Pwr output: 40 KW. Osc tube: 2J56 magnetron. Mod type: 4C35. Rep rate: 2000PPS .001 duty cy. Pwr input: 115V 400cy AC. Mfr: G.E.

9310 mHz Pwr output: 40KW. Osc tube: 2J48 mag. Mod type: 5D21 or 4PR60A hard tube. Rep rate: .5 microsec. Pwr input: 115V 60cy AC. Mfr: Motorola. Price $1200.00.

9375 mHz Pwr output: 40KW. Osc tube: 730A mag. Mod type: Req. a 3.2 KV, 80 amp pulse. Rep rate: Duty cycle .001. Pwr input: 115V 400cy. Mfr: Western Electric.

9375 mHz Pwr output: 40KW. Osc tube: 725A mag. Mod type: 3E29 hard tube. Rep rate: .5-1-2 microsec 600 & 1100 pps. Pwr input: 115V 400cy AC. Mfr: Philco. Price $475.00.

9375 mHz Pwr output: 40KW nom. Osc tube: 725A. Mod type: 5D21/715C. Rep rate: .25/1 microsec, 3000/750PPS. Pwr input: 115V 60cy AC. Mfr: RCA.

9375 mHz Pwr output: 40 KW. Osc tube: 2J55. Mod type: 4C35 thyr. Pwr input: 115V 60cy AC. Mfr: Sperry.

9000-9160 mHz Pwr output: 45KW. Osc tube: QKH 713 mag. Mod type HT-415. Rep rate: 0.18 microsec, 5500 or 1833 PPS. Pwr input: 115V, 60cy AC. Mfr: Gilfillan.

9080 mHz Pwr output: 50KW. Osc tube: 2J51. Mod type: 4C35 thyr. Rep rate: 2 microsec 2000 pps. Pwr input: 115V 60cy AC. Mfr: L.F.E. price $1200.00.

8500-9600 mHz Pwr output: 65KW. Osc tube: 6543 mag. Mod type: Req .001 duty cy. Pwr input: 115V 400 Hz AC. Mfr: Philco.

9350-9400 mHz Pwr output: 75KW. Osc tube: 4J52A mag. Mod type: Req 3.3KV, 70 amp. Rep rate: 0.5/2.5/5.0 microsec, 800/400/200 PPS. Pwr input: 115V 400 Hz AC. Mfr: Texas Inst.

9375 mHz Pwr output: 100KW. Osc tube: 4J52A mag. Mod type: Hard tube 4PR60. Rep rate: .1 or .4 microsec/3000/750 PPS. Pwr input: 115V 60cy AC. Mfr: Sperry. Price: $875.00.

9375 mHz Pwr output: 100KW. Osc tube: 4J52 mag. Mod type: 4C35 thyr. Rep rate: .5-1-2 microsec 200-300-775 pps. Pwr input: 115V 400 cy AC. Mfr: Philco. Price $750.00.

8750-9600 mHz Pwr output: 190KW. Osc tube: 6865A mag. Mod type: 6587. Rep rate: 1.5 or 2.5 microsec, 1000 PPS. Pwr input: 115V 400cy AC. Mfr: RCA.

8750-9600 mHz Pwr output: 200KW. Osc tube: 6865A. Rep rate: 1.5/2.5 microsec, 1000 PPS. Pwr input: 115V 400 Hz AC. Mfr: RCA.

8500-9600 mHz Pwr output: 250KW. Osc tube: 6249A mag. Mod type: 6587 thyratron. Rep rate: .0013 duty cy. Pwr input: 115V 400 cy AC. Mfr: Raytheon.

9375 mHz Pwr output: 225KW. Osc. tube: 4J50 4J50 mag. Mod type: KU-25/5C22. Rep rate: 0.5 microsec 1200 PPS or 1.25 microsec at 550 PPS. Pwr input: 115V 400cy AC. Mfr: Westinghouse.

9375 mHz Pwr output: 225KW. Osc tube: 4J50 mag. Mod type: 5C22 thyr. Rep rate: 2.25/1.75/.4 microsec 300/550/2500 pps. Pwr input: 115V 60cy AC. Mfr: Westinghouse. Price $2400.00.

9250-9400 mHz Pwr output: 250KW. Osc tube: 6002 mag. Mod type: 5C22 thyr. Rep rate: .5 & 2 microsec 540 pps. Pwr input: 115V 400cy AC. Mfr: Hughes. Price $2400.00.

9230-9400 mHz Pwr output: 250 KW. Osc. Tube: 6002 magnetron. Rep rate: .5/2 microsec 500 pps. Pwr Input: 115V 400cy. AC. Mfr: RCA.

8500-9600 mHz Pwr output: 250KW. Osc tube: 6249A mag. Mod type: 6587 thyratron. Rep rate: .0013 duty cy. Pwr input: 115V 400 cy AC. Mfr: Raytheon.

9100 mHz Pwr output: 400KW. Osc tube: 6959 mag. Mod type: 5C22 thyr. Rep rate: 1.8 microsec .001 duty cy. Pwr input: 115V 400cy AC. Mfr: Texas Inst. Price $3800.00.

RF PACKAGES

K BAND PULSE

16.4-16.6 gHz Pwr output: 50KW. Osc tube: QK-400/6841 mag. Mod type: thyratron Rep rate: .33/1/3 microsec, 2016/672/224 PPS, .001 duty cy. Pwr input: 115V 400 Hz AC. Mfr: Raytheon.

16.4-16.6 gHz Pwr output: 50KW. Osc tube: QK724 mag. Mod type: 5C22. Rep rate: .001 duty cy. Pwr input: 115V 400 Hz AC. Mfr: Emerson Electric.

24 gHz Pwr Output: 40 KW. Osc Tube: 6551 magnetron. Mod type: Thyratron. Rep rate: .0007 duty cy. Pwr input: 115V 400cy AC. Mfr: Sperry.

24K gHz Pwr output: 40KW. Osc tube: 3J21 mag. Mod type: 715B hard tube. Pwr input: 115V 400cy AC. Mfr: W.E. Price $750.00.

35 gHz Pwr output: 50KW. Osc tube: MA-207 mag. Mod type: 4C35 thyr. Pwr input: 115V 60cy AC. Mfr: Bendix. Price $2200.00.

V.L.F.

17 to 27 kHz. Pwr output: 200 watts sonar. Pwr input: 115V 60cy. Mfr: RCA.

24 to 27 kHz Pwr Output: 500 watts apx. Osc tube: pr 813. Pwr input: 115V 60cy AC. Mfr: Sprague. Price $750.00.

125-450 kHz Pwr Output: 4KW. Mod Type: Spark Gap. Rep Rate: Induction Heater. Pwr Input: 220V 60cy AC. Mfr: Lepel.

170 to 600 kHz. Pwr output: 500 watts. Modulator type: CW, A2, A3. Power input: 440V 60cy. AC. Mfr: G.E. Price: $575.00

Freq: 350-500KC. Pwr output: 200-300 watts. Osc tube: 807. Rep rate: CW/MCW. Pwr input: 115VDC. Mfr: RCA.

INFRA RED SOURCE

BARNES ENGINEERING MODEL 11-1100. Collimated 2 to 3 micron, 200 to 600 deg C. Transistorized temperature controller. Navy type AN/USM. Designed as part of airborne infra red RCA system as a tracking aid. Input 115V 400 cy and 28VDC. Price $1975.00.

INFRA-RED DETECTOR TYPE AN/GAS-1. Detector uses a cassegrain feed with an 8" focusing mirror. Wavelength selected by two filters. Either narrow band 2. to 2.5 microns, or 1. to 4.5 microns. Strip chart recorder and battery pack included. Complete system is mounted in carrying cases including the tripod mount. Power-battery pack. Mfr: E.K. Price: $2200.00.

400 CYCLE MG SETS

Output: 120/208V, 83 amps, cont. duty, 3 ph, 400cy. Input: 220/440V, 3 ph, 60cy. Price: $975.00.

Output: 115v 22 amps cont. duty 1 phase 400cy. Input: 220V 3 ph 60cy. Requires 30VDC exc. Mfr: G.E. Price $225.00.

Output: 120/208V, 41.6 amps, PF .75-1.0 15KVA, 3 ph, 400 Hz. Input: 220/440V, 3 ph, 60 Hz, 57.2/28.6 amps. Mfr: G.E.

PULSE MODULATORS

5KW HARD TUBE PULSER Output: 3KV 2 amps. Rep rate: 1.1 microsec 50 pps. Keyer tube: pr 4X150A. Pwr input: 115V 60cy AC. Price $975.00

25KW LINE PULSER Output: 5.5KV at 4.5 amps. Duty cycle: .0025. Pulse lgths: .8 and 2.2 microsec. Rep rate: 810 & 405 pps. Uses 3C45 thyr. Input: 115V 400cy AC. Mfr: G.E. Ref: MIT Rad Lab Series Vol 1 pg 387. Price $225. 00.

25KW HARD TUBE PULSER 5KV 6 amps. Rep rates: 1 microsec. Duty cy: .012. Keyer tube: 715B. Pwr input: 115V 60cy AC. Price $1200.00

144KW MIT MODEL 3 PULSER Output: 12KV 12 amp. Duty ratio: 001 max. Pulse duration: .5, 1 & 2 microsec. Input: 115V 400 to 2000 cps and 24 VDC. Ref: MIT Rad Lab Series Vol 5 pg 140. Price $375.00.

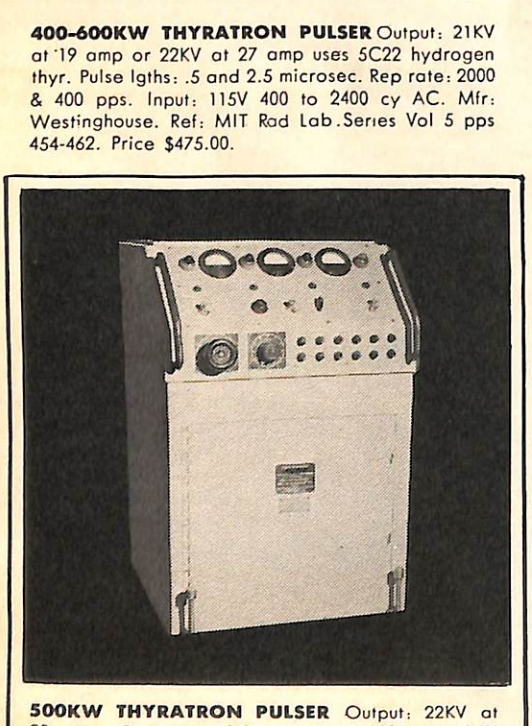
200KW LINE PULSER Output: 200KW. Output in KV & amps: 16KV 16 amp. Rep rate: .25 microsec 4000 pps. Duty cy: .0012. Keyer tube: 5C22. Pwr input: 115V 60cy AC. Mfr: Sperry. Price $450.00.

225KW LINE PULSER Output: 225KW. Output in KV & amps: 15KV at 15 amps. Duty cy: .001. Pulse lgths: .5, 2.25, 4.5 microsec. Rep rate: 800, 400, 200 pps. Uses 4C35 thyr. Input: 115V 400cy AC. Ref: MIT Rad Lab Series Vol 1 pg 388. $450.00.

250KW LINE PULSER Output: 3.5KV at 72 amps. Rep rate: 1.0 microsec 400 pps. Mod tube: 4C35. H.V.P.S. included uses 3 ea. 3B24 rect. Pwr: 115V, 60 Hz. Mfr: Raytheon.

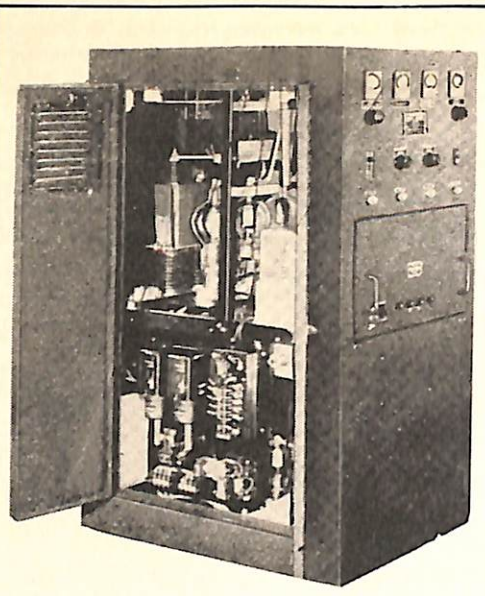
250KW HARD TUBE PULSER Output: 16KV 16 amp. Duty cy: .002. Pulses can be coded. Uses 5D21, 715C, or 4PR60A. Input: 115V 60cy AC. incl H.V. pwr supply. Price $1200.00.

400-600KW THYRATRON PULSER Output: 21KV at 19 amp or 22KV at 27 amp uses 5C22 hydrogen thyr. Pulse lgths: .5 and 2.5 microsec. Rep rate: 2000 & 400 pps. Input: 115V 400 to 2400 cy AC. Mfr: Westinghouse. Ref: MIT Rad Lab.Series Vol 5 pps 454-462. Price $475.00.



500KW THYRATRON PULSER Output: 22KV at 28 amp. Rep rate: 2.25 microsec 300 pps, 1.75 microsec 550 pps, .4 microsec 2500 pps uses 5C22 hydrogen thyr. Complete with driver and H.V. pwr supply. Input: 115V 60cy AC.

1 MEGAWATT THYRATON PULSER. Output: 30 KV 40 amps. Duty Cycle: .002. Rep rate: .5 microsec 93 pps and 5 microsec 186 pps. Keyer tube: 5C22. Pwr. input: 115V 60cy AC. Mfr: Raytheon. $2400.00.



MIT MODEL 9 PULSER 1 MEGAWATT—HARD TUBE Output: 25KV 40 amp. Duty cy: .002. Pulse lgths: .25 to 2 microsec. Also .5 to 5 microsec & .1 to .5 microsec uses 6C21. Input: 115V 60cy AC. Mfr: G.E. compl with driver and high voltage pwr supply. Ref: MIT Rad Lab Series Vol 5 pps 152-160.

1 MEGAWATT LINE PULSER Output: 8KV, 150 amps into 50 ohms. PRF: 0.25 microsec at 1000 or 1500 pps. Modulator tube: 5C22 hydrogen thyratron. Complete with high voltage supply controls and pulse generators. Pwr input: 120V, 3 ph, 400 Hz. Mfr: Western Electric.

1.2 MEGAWATT HARD TUBE PULSER 0-40KV at 0-30 amp. 20-5,000 pps. .5-5 microsec. Input: 208VAC, 60 cycle. Levinthal mod. 333M. Price: $4400.00.

1.5 MEGAWATT LINE PULSER Output in megawatts 1.5 MW. Output in KV & amps 30KV 50 amp. Rep rate: 2 microsec 400 pps. Duty cycle: .002. Keyer tube: 5C22 thyr. Input: 115V 60cy AC. Mfr: Westinghouse.

2 MEGAWATT LINE PULSER Output: 30KV at 70 amp. Duty cy: .001. Rep rate: 1 microsec 600 pps, 1 or 2 microsec 300 pps. Uses 5948 hydrogen thyr. Input: 120/208 VAC. 60cy. Mfr: G.E. Compl w/HV pwr supply.

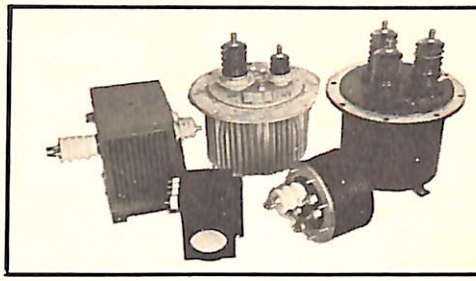
2 MEGAWATT LINE PULSER Output: 30KV at 70 amps. Duty cy: .001. Pulse lgths: 2 or .67 microsec. Rep rate: 300 and 900 pps. Uses 4C35 thyratrons in bridge cct. Gap tube: 1B41. Res chg choke 150 cy, 30Hy, 12 amps. PFN 17E2-300-25P2T. Step up xfmr 4400V to 22KV. Input: 115VAC 400cy 3ph.

0 to 3 MEGAWATT THYRATRON PULSER Output: 0 to 39KV 75 amps. Rep rate: .25, 1 microsec 500 pps. Pwr input: 115V 60 Hz AC. Mfr: FXR. This modulator was designed as a universal magnetron tester. Price: $5500.00.

4 MEGAWATT KLYSTRON PULSER Output in megawatts: Dual 2 megawatt. Output in KV & amps: 115KV at 78 amp. Rep rate: 7.0 to 8.4 microsec 360 pps. Duty cy: .003. Keyer tube: 5948. Pwr input: 220V 60cy AC. Mfr: Bendix MD212/FPS-20.

10 MEGAWATT LINE PULSER Output: 135KV 76 amps. Rep rate: 2-3 microsec, 300-400 PPS. Keyer tube: 5948 thyratron. Input: 120/208 60cy AC. Mfr: G.E. type FPS-6.

PULSE TRANSFORMERS



120KW Raytheon U-12016. Input: 3KV-64A. Output 12.5KV 9.5 A. .3 microsec. 1000 CPS. price $37.5

200KW Keystone. Input: 3.9KV-60A-50 ohms. Output: 22.5KV-12A-1250 ohms. .16 to .2 microsec/550 PPS. Bifilar. Price: $45.00.

200KW G.E. K2461. Input: 3.1KV-70A-50 ohms. Output: 14KV-14A-1000 ohms. 1 microsec 600 PPS. $52.5

225KW Philco. Input: 3.3KV-70A-50 ohms. Output 15KV-15A-1000 ohms. .5/2.5/5 microsec. 800/400/200 PPS. Bifilar. $35.00

450KW Raytheon 363-1740G1. Input: 4.16KV-105A Output: 22.5KV-20A. Bifilar sec. $65.00

600KW Westinghouse 4P43. Input: 5.5KV-100A. Output: 22KV-28A-800 ohms. Bifilar sec. Typical use 4J50 magnetron. Price: $57.50.

800KW Raytheon UX-12095. Pulse Balance Transformer. Input/Output: 5KV-165A. 1-4.5 microsec 22 CPS. $55.00

900KW Raytheon type 363-1230G1B. Input: 6.67KV 135 amps. Output: 29KV, 31 amps. Pulse width and rate: 0.5/5 microsec at 935/187. Filament: Primary 160 volts, Sec. 4.0 volts, 42 amps. Bifilar.

1.11MW Westinghouse cat. #4P312. Input: 3.7KV. Output: 14KV at 80 amps. Mfg for RCA #8269118.1.

1.5MW Philco 368-7913. Input: 8KV. Output: 35KV-50A. Bifilar. .5 and 3 microsec 270 PPS. 5:1 Ratio.$9

2MW Axel Electronics TP-657. Input: 7.33KV max W.V. into 26 ohms. Output: 34KV max. W.V. into 550 ohms. Pulse width and rate: 2 microsec 450 pps Filament: Primary 115V 400 Hz, Sec. 28V at 9 amps 400 Hz. Bilfilar.

2.2MW G.E. K-2788B, 82H402 and G.E. K2838. Cat. No. 82H413. Input: 10.5KV-210A-50 ohms. Output 31.5KV-70A-450 ohms. Bifilar. 1 microsec 600 PPS. 2 microsec 300 PPS. Typical use: 4J31 magnetron. Price: $125.00.

3MW Western Electric 7599906. Input: 7.5KV 400 amps max. Output: 50KV 62.5 amps max. Pulse Characteristics: 1.33 microsec .002 DC. Impedance ratio: 15 to 800 ohms. Bifilar secondary. Used in Nike system.

3.5MW G.E. Cat. No. 82H454 Input: 7.1KV-500A-25 ohms. Output: 55KV-65.6A-1000 ohms. 2 microsec 500 PPS. 1 microsec 1000 PPS. $225.00

5MW Maloney Electric TR1446. Input: 11KV-400A. Output: 56KV-95A .0006 ducy cycle. Bifilar. Typical use: Type 6406 magnetron. Price: $325.00.

10.5MW G.E. K2840 and Moloney 40025-56. Pwr output: 70KV, 130 amps. 2 microsec pulse 400 pps. Used with a QK338/RF6410 magetron. FSN 5840-333-5309.

11MW G.E. 154127. Input: 27.2KV. Output: 128KV at 86 amps. PRF: 6600 pps at .25 microsec; 3300 pps at .5 microsec; 1600 pps at 1.0 microsec. Bifilar secondary with bifilar choke of 120 micro henries. Mfg. for RCA #8713132-1.

30 MW G.E. K-2770-A. Input: 17200 volts. Output: 100KV at 300 amps. PRF: 200 pps at 2 microsec; 200 pps at 5 microsec; 100 pps at 10 microsec. Bifilar secondary. Size: 5' hi, 2' dia. G.E. P/N 8278496.

PULSE COMPONENTS

PULSE FORMING NETWORKS

PULSE FORMING NETWORK 25-E2-3-200-50P3T Sprague, E cct 2 sec, 3 microsec, 200 pps, 50 ohms, 3 terminals. Price $65.00.

PFN .41-1.75-2.25 MICROSEC. 14E1-.4-2500-50-P6T incl 1.75 microsec-550 PPS and 2.25 microsec-300 PPS. Mfr: Westinghouse. Price: $55.00.

PFN ¼ MICROSEC. 2500-1600 PPS, 50 ohms, 1700 VDC breakdown. Price: $25.00 each.

PFN.4 MICROSEC. 2.64E2-.4-800-50P2T. Mfr: G.E. Price $5.00 ea.

P.F.N. 1 MICROSEC. 24E2-1.0 630-25P 24KV rated. 2 sections, 1.0 microsec pulse, 630 pps. 25 ohm 2 terminals. Mfr: Corson Electric for RCA SPS-12. Price: $75.00.

HIGH VOLTAGE POWER SUPPLIES

OUTPUT 5KV at 1 Amp. Input: 208V, 3 Ph Delta, 60 Hz 6.3 KVA. Uses 6 each 872 tubes. Mfr: Manson Labs Model 731.

MULTIPLE OUTPUT REGULATED POWER SUPPLY Output: 0 to 6KV at 0-500 Milliamps; 0 to 1.5KV at 0-50 Milliamps; 0 to 2KV at 0-10 Milliamps. Each supply has its own chopper stabilized regulator. 3C45 and 4C35 used to control regulator tubes. Tubes include 11 ea. 813 type amp., 17 ea. 836 type rectifiers. Mfr: Manson Labs. Pwr: 115V 3Ph 60 Hz.

OUTPUT 27KV 100MA DC. Input 115V 60cy 3 phase. Mfr: G.E.

OUTPUT 12KV 800MA DC. Input 220V 60cy 3 phase Mfr: G.E.

OUTPUT 8KV 800MA DC. Input 208V 60cy 3 ph. Klystron beam power supply. Also equipped with 8 amp DC focus current. Mfr: Westinghouse.

OUTPUT 2.5KV 275MA DC. Input 115V 60cy AC.

OUTPUT 150V 10A. DC Input: 220V 60cy AC. Cont variable 0-150VDC. Mfr: Varian. Price: $295.00.

OUTPUT 0 to 50V, DC. variable, 30 to 60 amp. Input: 110/220V 3 ph 60 cy AC. Mfr: Bendix Friez. Type: T-128-C. Price: $250.00.

25KV PLATE AND FILAMENT TRANSFORMER High voltage: 25,000V 100 dc. nominal. Low voltage: 200V 11.55 amps, 5.87V 6.5 amps. Input: 115V 60cy AC 3 ph. Compl rectifier transformer with sockets for 8020 tubes. Mfr: Westinghouse. Price: $225.00.

OUTPUT 13.4KV 1.5 amps. Input: 510V, 3 Ph, 60 Hz, 24 amps (L-L.). Complete unit with 6 sockets for 8020 tubes. Wt: 750 pounds. Mfr: G.E. #155X305.

OUTPUT 30KV .23 Amps. Input: 208V, 3 Ph, 60 Hz. Complete rectifier unit with 6 ea. 8020 tube sockets and a UE-X80 tube socket. Various taps for 2 filaments and output. Mfr: G.E. Catalog #81H374.

OUTPUT 25KVDC 2 Milliamps. Input: 120V 400 Hz. Solid state potted assembly apx 250 cubic inches. Mfr: Del Electronics. Price: $35.00.

OUTPUT 10KVDC 1 Milliamp. Input: 120V at 400 Hz. Solid state potted assembly apx 150 cubic inches. Mfr: Del Electronics. Price: $25.00.

MAGNETRONS

1220-1350 mHz tuneable. 500KW. 30K at 60A. .002 duty cy. Type 5J26. Price: $275.00.

2800 mHz. 250KW. 22K at 30A. .002 duty cy. Type 2J32. Price: $125.00.

2840 mHz. 800KW. 30K at 70A. .001 duty cy. Type 4J32. Price: $225.00.

2840 mHz. 250KW. 22K at 30A. .002 duty cy. Type 2J31. Price: $125.00.

3255 mHz 2.5 to 10KW. 3 to 10KV, 2.5 to 7.5 amp. Coaxial output. Integral permanent magnet. Mfr: Raytheon type 2J38. Price: $75.00.

3425 mHz. 700KW. 30K at 70A. .001 duty cy. Type 4J41. Price: $225.00.

3475 mHz. 700KW. 30K at 70A. .001 duty cy. Type 4J40. Price: $225.00.

3425 mHz. 700KW. 30K at 70A. .001 duty cy. Type 4J39. Price: $225.00.

8900-9400 mHz 1KW. Tuneable. 4.5KV 1 amp. .001 duty cycle. Type QK-790. Price $125.00.

8.9 to 9.4 gHz Tuneable. 910 watts. 5KV 1A .003 duty cycle. Mfr: Raytheon type 6230. Price: $135.00.

9310 mHz. 40KW. 16K at 16A. .001 duty cy. Freq stabilized. Type 2J48. Price: $75.00.

9375 mHz. 40KW. 16K at 16A. .001 duty cy. Identical to 725A, 2J53 etc with waveguide output axial rather than at right angle to mtg. Type 730A. $45.00.

9375 mHz. 65KW. 15KV at 15A .001 duty cy. Type 4J52. Price: $125.00.

8.5 to 9.6 gHz Tuneable. 65KW. 15KV 15A .001 duty cycle. Mfr: Litton type 6543. Price: $225.00.

9375 mHz. 225KW. 22KV at 28A .001 duty cy. Type 4J50. Price: $275.00.

15.5-17.5 gHz 135KW. 20KV at 20 amps. .001 duty cycle. Type 7208B.

24 gHz. 60KW packaged with magnet. 15K at 15A. .001 duty cy. Type 3J21. Price: $225.00.

X BAND TUNEABLE CW MAGNETRON

8800-9950 mHz. CW. 100-150W output. Fil: 5V at 20A. Anode: 2700 to 3100V at 140 MA. Litton type L-3046. Price: $675.00.

KLYSTRONS

9-10 gHz Multiplier ampl. Output: 300 milliwatts. Freq input: 1.8-2.0 gHz. Varian type V-45.

9-10.5 gHz. Amplifier-multiplier. 2 watts CW output. Req. 4500 to 5250 mc driver. Sperry type SMX-32. Price: $175.00.

4640-4670 mHz. Amplifier-multiplier. 1 watt CW output. Req. 773 to 778 mc driver. Sperry type SMC-11A. Price: $150.00.

7.5-8.5 gHz. CW amplifier. 1KW CW output. Varian types VA-806, 806H, N, R, S, T in stock. Price: $375.00.

7125-7425 mHz. Tuneable. 1 watt CW output. Mfr: Sylvania. Price: $65.00.

5.275-5.3 gHz. 5KW peak, 550 watts avg. Varian type VA-857. Price: $975.00.

2.7-2.9 gHz. Pulse amplifier. 2MW pulse output, 2KW avg. Varian type VA-87B. Price: $1450.00.

5.4-5.8 gHz Tuneable. 5 megawatt pulse output. .5 microsec 50-500 pps. With focus magnet. Mfr: Sperry type SAC-144.

1.7-2.4 gHz. Tunetable. 10KW CW output. Varian type VA-800. Price: $1275.

.3-.8 gHz. Superpower. This tube is 12 ft tall and weighs 3000 lbs. Used on Nike Zeus. Varian type VA-852. Price: $15,000.00.

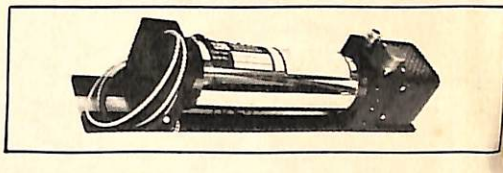
KLYSTRON TUBE BODIES

The following tube bodies are available in non-operating condition for rebuilding, sampling, demonstration, training aid. VA-800 KLYSTRON price $375.00, VA-87B KLYSTRON price $375.00, VA-852 KLYSTRON price $3000.00, CM-706A CARCINOTRON price $175.00.

MICROWAVE TUBES

TRAVELING WAVE TUBES

3.0 to 3.5 gHz Tube 6784 Microwave Assoc. Low noise, low power device originally used as the receiver RF amplifier in the Nike Herc. system. Uses permanent magnet.



8500-9600 mHz. 1 watt CW output into 50 ohms. Gain: 30db. pwr requirements: 6.3V at 0.5A. Anode: 1200 to 2200V at 100 MA. Helix: 2100 to 2450V at 4 MA (max.). Collector: 2100 to 2450V at 20 MA (max.). Microwave Electronics Corp. type M-5061. Price: $450.00.

1.5-4.5 gHz. L-S-C band. 10 milliwatts output. Wide band low level amp. RCA type 1161. U/w AN/ALQ-19 Countermeasures Set. Gov't acq. cost $4000.00. Price: $250.00.

1.9-4.1 gHz. One watt output grid controlled. Wide band medium pwr amp. Pulse or CW operation. RCA type 1154. U/w AN/ALQ-19 Countermeasures Set. Gov't acq. cost $4000.00. $250.00.

2.0-4.0 gHz Pwr output: 38 ± 7 millwatts across the band. Small signal gain 38-47db across the band. Mfr: RCA type 4012. Price: $125.00.

870-1000 mHz. 5KW peak output, 350 watts avg. Pulses up to 600 microsec at 7% duty cy. Varian type VA-137C. Gov't. acq. cost $15,000.00 each. Price: $2500.00 each.

Noise Generator Tube Tucor Type T-44S6A

Frequency Range .....2700-2900 mHz
Excess Noise Ratio .....18.5 ± 0.5 db

CARCINOTRONS

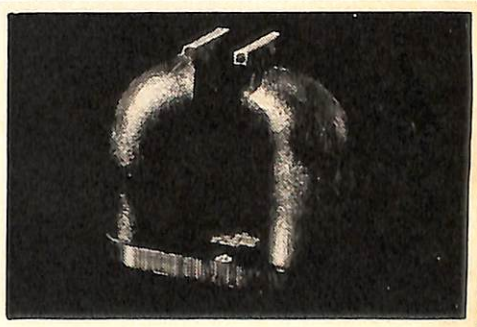
200-300 mHz tunetable. 5KW. CW output. CSF type CM-32. Price: $1250.00.

2400-3100 mHz tunetable. 200 watts. CW output nom. CSF type CM-710A. Price: $975.00.

ELECTROMAGNETS

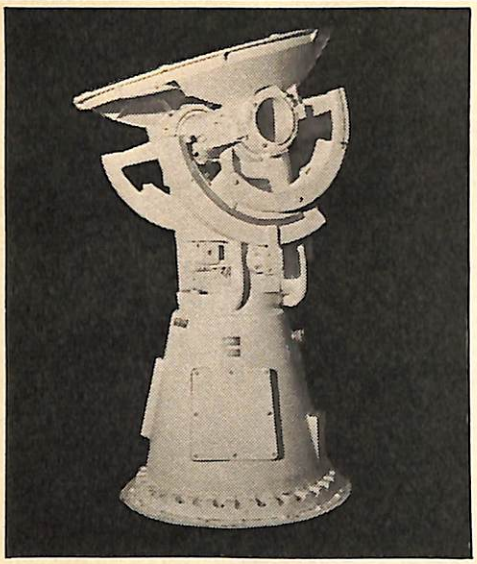
VARIAN TYPE VA-1520 for use with High Power Klystrons, etc. Price: $475.00.

VARIAN TYPE VA-1555 focus magnet. Wt 3500 lbs. Ht 82" Dia 30". Five coils apx 26 ohms each. Aux coil 5 ohms. Current: 10 amps. Coolant: water at 5 gpm. Price: $1500.



PERMANENT MAGNET 5400 Gauss .625" gap between pole faces. 6½" high. Mfr: Western Electric D-168226. Price: $75.00.

ANTENNA SYSTEMS



AZ. EL. MOUNT Az coverage 360 deg, El coverage 0 deg to 108 deg. 30 sliprings. Diehl 100 watt, 2 pole, 115V 60Hz motors in azimuth and elevation. 8:1 and 1:1 60Hz synchro outputs. DC tach output. (X-band rotary joints.) Pwr: 115V 60Hz. Mfr: G.E.

30' DISH AZ. EL. MOUNT Large transportable mount less dish. Hyd drive. Originally used as a mobile space communication terminal. Can be transported by road on its own trailer and then raised hydraulically. Pwr input: 115V 60cy AC. Mfr: Antenna Systems Inc. type AN/MSC-26. Price: $9500.00.

AZ-EL MOUNT Coverage: Az. ±360 deg cable wrap. Elect: Elev. −2 deg to +85 deg. Mech: −5 deg +185 deg. Rates: Vel. 20 deg per sec Max, Accel. 20 deg per sec min. Torque: 500' pounds. Data output: 8 synchro transmitters 1 & 36 speed. Servo loop B.W. 0.6Hz. Input: 115V, 3Ph, 60Hz. Complete with control console and mag amps. Mfr: Scientific Atlanta (Model 1301-J70).

AZ. EL. MOUNT 360 deg azimuth coverage, 0-90 deg elevation. Az data outputs 1 & 36 speed, 23-TX6, and 23-CX4 synchros. El data outputs 23CT6 (2 ea.) and 23TX6. Diehl motor DC drive. Oil pump lubrication. Slip ring package. Optical & IR track. Mount by Barnes Engrg. Price: $3800.00.

AZ-EL MOUNT on 2 wheel trailer 360 deg. az., −11 deg to 90 deg elev. coverage. Sliprings and S-band rotary joints, 6' parabolic dish with S-band feed. 60Hz synchros in az. and elev. axis. Magnetic amplifier drives. Pwr: 115V 3Ph 60Hz. Mfr: G.E.

AZ. EL. MOUNT 360 deg azimuth sweep, 180 deg elev sweep. Hydraulically actuated. 10' dia solid aluminum parabolic refl. 36" base bearing. Sector scan capability: 10 to 45 deg adjustable. 1 full scan per 1.5 seconds. Mtd on gun carriage type 4 wheel trailer. 115v 60cy AC electrical system. Mfr: Sperry. Price: $17,500.00.

AZ-EL MOUNT 360 deg az, 180 deg elev coverage 6' yoke. Ideal as a telemetry pedestal. 1 speed synchro transmitters on both axis. Master electric motors with integral electric brake (3' pounds). Input: 115V 60Hz AC. Mfr: Houston Fearless Model RCP-6.

AZ. EL. MOUNT 360 deg azimuth sweep, 180 deg elev sweep. Accuracy .5 mil. Slew rate: 1 radian per second. Type: MPS-19. Mfr: Bendix. Dim: 3' dia base, 5' high, apx. Can handle dish 4 to 16'. Input: 250VDC 3A from amplidyne. Price: $7500.00.

AZ. EL. MOUNT 6000 lb capacity. 360 deg azimuth sweep, 180 deg elev sweep. This is a trailer mounted T-38 AA gun mount with a 4' bearing: Hydraulic actuation. Price $14,500.00. We have pointing radars for this mount if req'd.

"ATLAS" AZ. EL. MOUNT A large tracking mount, trailer mounted, with several thousand pound load capability. Mfg by GE and part of the AN/GRM-9 "Atlas" Guidance system. Total wt of mount and trailer is 22,000 lbs.

AZ.EL. MOUNT. 360 deg az. 180 deg elev with 6 ft dia Fresnel lens mounting. Complete with drives, servos, synchros, readouts. p/o M-33 tracking system.

AZ. EL. MOUNT 360 deg azimuth. 180 deg elevation. 5 ft yoke. With dish. for 200 mc telemetry. Trailer mounted. Mfr: Radiation Inc. "Radiquad." Price $1800.00.

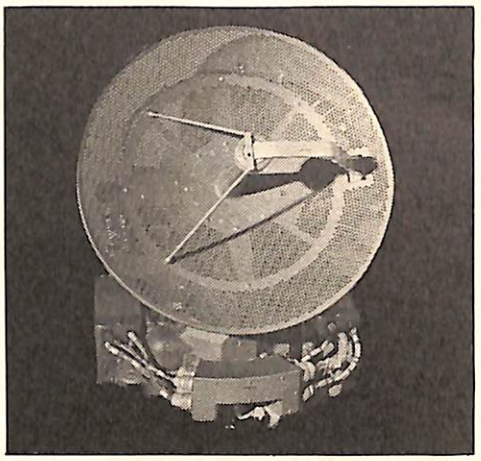
AZ. EL. MOUNT A tracking pedestal with 4 ft bearing mounted on a 2 wheel trailer. Designed for seating 1 man for pointing cameras, telemetry mounts, etc. USAF type M-15. Price: $450.00.

AZ. EL. MOUNT 360 deg az. sweep, 210 deg elev. sweep. A mini-autotrack mount 30" apx. base dia. Equipped with X band feed and rotary joints. 18" dish. Input: 115V 400cy AC. Mfr: Canoga, type PS2S-3A. Price: $3800.00.

AZ.EL. MOUNT 360 deg az. 180 deg elev. Accuracy .5 mil. Elevation angle tracking rate 800 mils per sec. Azimuth angle tracking rate 1600 mils per sec. Slant range 450 yds per sec. Will take dish up to apx. 5 ft in dia. Total weight apx 175 lbs. Mfr: Sperry.

X-Y MOUNT 160 deg X axis 160 deg Y axis apx covering conical area from zenith to 20 deg above horizon when mtd horizontally. Complete with all drives (28VDC) and servos. 18" dish 3 cm dipole and rotary joints. Can handle apx 40 lb load. Rugged aluminum yolk and frame casting. A fire control antenna that makes an excellent gimbal mount for many applications. Mfr. G.E. Type APG-33. Price: $675.00.

X-Y MOUNT 160 deg X axis 360 deg Y axis apx. Scans conical area from zenith to 20 deg of horizon thru 360 deg when mtd horizontally. 18" fiberglass parabolic reflector. 3 cm feed and rotary joint. Input: 115V 400cy AC. Comp w/all servos and readouts. Mfr: Hughes. Price $750.00. Joystick control $125.00.



X-Y MOUNT 160 deg X axis 160 deg Y axis apx. Will scan a conical area from zenith to about 20 deg above horizon when mtd horizontally. Hydraulic actuation (hydraulics not included). Spinning 3 cm dipole. Dish 24" dia aluminum. Guidance antenna from **"Bomarc"** missile. Price: $575.00.

X-Y MOUNT 80 deg az apx. 10 deg elev apx. 5 ft dia fiberglass dish. C band and X band horns. Hydraulic drive. p/o AN/APS-44 radar. Price $2200.00.

AZ-EL MOUNT X band feed with 24" dish. Focal length 11". Spinning dish can scan up to a 60 deg cone. Autosyn resolver output. Used as the antenna for the MA-10 fire control system. Pwr: 115V, 3Ph, 400Hz. Mfr: RCA.

X-Y MOUNT 150 deg X axis 60 deg Y axis. Cutler feed with 6.3" focal length. 15" dia reflector. Gain: 28db. Beamwidth: 6 deg circular. Polarization: horizontal. Scanning rate: 1 per sec. Price: $125.00.

X-Y MOUNT Coverage: 70 deg Y axis, 90 deg X axis apx. Dual X band feed for monopulse or lobing. 11" dish includes 4 rotary joints. Pwr: 115V, 400Hz. Mfr: Arma.

AMPLIDYNE MOTORS

¾ HP. 250V armature 2.8A. 90V field. .3A. 3450 RPM. Continuous duty. Mfr: G.E. Model No: 5BC-48AB153A. Price: $150.00.

½ HP. 250V Armature 1.9A. 300V field. 3450 RPM. Continuous duty. Mfr G.E. Model No: 5BC46AB857. Price: $125.00.

AMPLIDYNES

Sperry: 250V field, 250V arm, 16KW. Plus 220V field, 80V arm, .75KW. Plus 55V field 60C arm, .18KW. Drive motor: 2.5 HP, 3450 RPM, 115 V 60cy AC 3 ph. Price: $450.00.

Westinghouse: 250VDC 2A 500 watts. Input: 115V 60cy 3 ph AC, 3450 RPM. Price: $450.00.

General Electric: 250 VDC 2A 500 watts. Input: 115V 60cy 3 ph AC 3450 RPM. Price: $450.00. Type 5AM65FB2A.

DRIVE MOTOR 4HP. Input: 208V 3 ph 400cy cont duty. Mfr: G.E. type 5K61NJ12. Price: $150.00.

AZIMUTH MOUNT 360 deg search. Capable of swinging apx 20' square aluminum reflector. Motor input: 208V 6A 3ph 60cy. Type CPN-18. Price: $1800.00.

AZIMUTH MOUNT 360 deg search. Heavy duty. Can swing 10 ft by 5 ft air search array. 200 mc rotary joint. Synchro position readout. Input: 115 VDC. Mfr: G.E. type SA-3.

NIKE AJAX SEARCH ANTENNA 360 deg azimuth sweep. S band. 18 ft long, 6 ft high parabolic section with hydraulic tilt. Housed in radome. Input: 208V 3 ph 400cy AC. Mfr: W.E. Used as acq antenna and mount for the Nike Ajax and M-33 systems. Price: $5,000.00. Spare drive motors in stock.

AZIMUTH MOUNT 360 deg search. X band feed. 115V 60cy AC drive motor. Weatherized for marine installation. 4 ft long cylindrical reflector. Synchro readout. Mfr: Sperry type MK VI Mod O. Price: $875.00.

AZIMUTH MOUNT: 360 deg sweep. Will carry 50 to 100 lb load. Synchro readout. Available with 115VDC, 230VDC or 32VDC drive motors, 19 RPM gear box. Comp. Self enclosed and weatherproof. Mfr: RCA. Price: $575.00.

AZIMUTH MOUNT 360 deg search. 18" parabolic reflector. 3cm dipole feed and rotary joint, servo output. Input drive: 28VDC. Mfr: G.E. Price: $125.00.

AZIMUTH MOUNT: 360 deg search. 15 deg tilt adjust. Incl. 3' long parabolic section, X band feed and rotary joint, synchros, 28VDC drive assembly. Mfr: Philco type APS-33. Price: $475.00.

AZIMUTH SEARCH ANTENNA 360 deg azimuth sweep. S band. Rectangular parabolic reflector apx 20 ft high, 14 ft wide. Horiz beam width: 1.4 deg. Vertical beam width: 30 deg. Input: 120/208V 60cy AC. Mfr: Bendix type FPS-18.

AZIMUTH MOUNT Complete with "S" band antenna. 360 deg coverage with sliprings. Antenna is a parabolic cylinder section apx 12' H, 8' W tilted 25 deg from vert. Gain: 33.5db at 3050 mHz. Beamwidth: Elev. 3 deg, Az. 2.5 deg. RPM: 30 max. 60 cy synchros. Pwr: DC drive motor. Mfr: Hughes type SPA-42/SPS-42.

AZIMUTH MOUNT AB-592A/SPS Frescanner. Drive motor, DC type GE 5BC41VJ8. Synchro: 2 ea. AC. Lubrication: oil pump. Slip rings: 5. Mfr. Hughes type SPA-45.

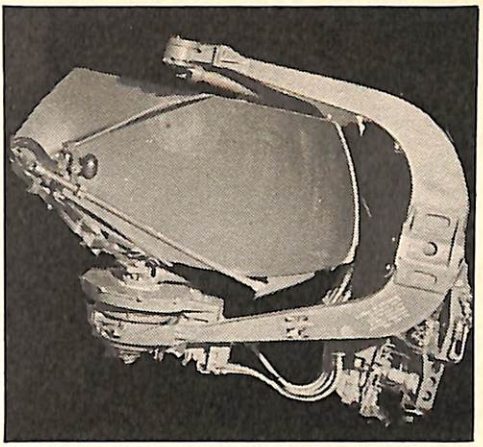
AZIMUTH MOUNT Speed: 10 RPM. X-band rotary joint. Drive motor: 115V, 60Hz, 4 amps, ¼ HP, 1 sp synchro 115V 400Hz. Mfr: RCA.

AZIMUTH MOUNT 360 deg search with X-band feed and 12' x 3' reflector. 0.65 deg horz., 15 deg vert. beamwidth. Scan speed: 15 RPM. Synchro readout. Input: 220V 3 ph 60 cy. Mfr: Sperry type MK3. Price: $1200.00.

AZIMUTH MOUNT 360 deg sweep. speed 0 to 6 RPM. Capable of handling loads in the order of 1500 pounds. A-C servo systems drives a 2 Ph, 12 pole, low inertia motor, using a DC tach and 400 cy CT synchro. A 1 speed Tx synchro furnishes position info. 30 slip rings. Input: 115V 3 ph 400 cy AC. Mfr: RCA type AB-226/TPS-10D.

AZIMUTH MOUNT Antenna turntable 2'x2'. 360 deg azimuth coverage with 16 sliprings. DC drive motor, ⅓ HP. 2 speed synchro output 36 and 1 speed. Mfr: Antlab model B-612.

ANTENNA TURNTABLE 8 ft diam. Max load 6000 lbs. 0 to 30 RPM. Mech. stops at 365 deg, rotation alternate clockwise and CCW. Two type G synchros. Vickers hydraulic drive. Price: $1800.00.

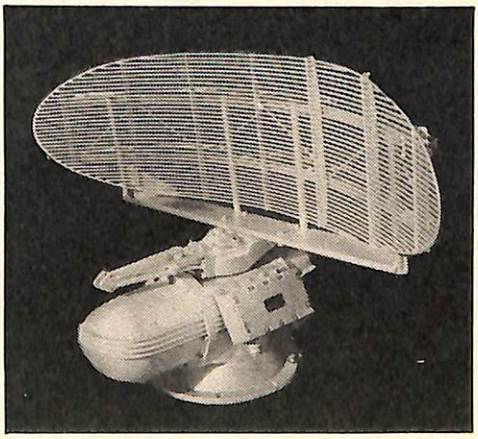


Ku BAND AZIMUTH MOUNT B-58 bomber search antenna. 360 deg. azimuth sweep. 22 deg. elevation tilt. Supplied with Ku feed, rotary joints, waveguide & synchro readout. Hydraulically actuated. Pump not incl. Price: $1250.00.

ANTENNA AS-999A/SPS & AS-1109/SPS Frescanner. "S" band. Freq: 3000 mHz. Reflector: Parabolic cylinder section tilted 25 deg from vert. 12' H, 8' W. APX. Gain: 33.5db at 3050 mHz. Beamwidth: Elev. 3 deg Az. 2.4 deg. Primary feed: Folded rect. waveguide. Wt: 3000 lbs. Mfr: Hughes type SPA-45.

STABILIZED CAMERA TYPE MOUNT Originally used with Fairchild 9x9 camera in B-58 bomber. Uses 2 rate sensing gyros type PAM-2 for roll and pitch stabilization. The mount can also be driven ± 15 deg in azimuth. 115V 400 cy AC input. Mfr: Aeroflex. Price: $1100.00.

STABILIZED ANTENNA MOUNT A stable platform with X band planar array for use with a pulse doppler gound speed & drift angle radar. Stable in roll, pitch and yaw. Pitch angle: +24 deg −14 deg. Rate: 18 deg/sec max. Roll angle: ±14 deg. Rate: 18 deg/sec max. Yaw rate: 18 deg/sec max. Input: 115V 400Hz AC. Mfr: General Precision. GPL.



AZIMUTH SEARCH ANTENNA RF Freq: X band. Beamwidth: Az 1.8 deg, Elev 19 deg. Polarization: Vertical. Antenna speed: 10 RPM. Motor: ¼ HP; 1725 RPM: 115V, 60Hz, 4 amps. Data output: 1 Sp synchro 115V 400Hz. Mfr: RCA type AS-444/SPN-5.

K BAND ANTENNAS

a) 24gHz parabolic reflector. 2 dishes back-to-back with feeds. 4'dia. Can be supplied with az-el drive.

b) 35gHz slot-feed reflector, 6' long, 12'' high.

PASSIVE REFLECTOR 360 deg. corner reflectors mounted in a sealed fiberglass wing tip pod. Originally used on the USD-1 drone. Mfr: Radioplane.

MIN. AZIMUTH TRACK MOUNT A small X band pedestal complete with synchros, motor tach, "X" band rotary joint, and 4'' diameter dish and feed. Size: 10'' x 11'' x 3''. Wt: 3 lbs. Power: 115V, 3 ph., 400 Hz.

FEED. Dual 2750-3021 mHz. For combined Vertical & Slant beam as used on AN/CPS-6B radar system.

TACAN GROUND ANTENNA 962 to 1213 mHz. 900 rpm. 1.2 hp az drive motor. Complete with antenna control. Type AN/GRA-60 Used with AN/GRN-9 Tacan. Price $950.00.

GROUND IFF ARRAY. 900-1200 mHz slot antenna for IFF interrogator GND system. 4' long ea section. 4 sections make full antenna when mtd with radar reflector. Type: AS-295B/UP. Mfr: Maryland Electronics.

BROADBAND RCVG ANTENNA SYSTEM 0.49-12 gHz. Uses 5 separate antennas mounted on one assembly. 2 horns, 3 conical helix type antennas all circularliy polarized. Unit is waterproof with fiberglass radomes over each antenna. Complete assembly is 4' x 2½'. Originally used as a receiver antenna for the AN/TLR-8 passive countermeasures syst. Mfr: AEL type AS791/TLR-8. Price $950.00.

160-1100 mc ANTENNA Receiving antenna system. 3 bands 160 to 320 mc, 300 to 600 mc, 500 to 1100 mc. 50 ohms Z. P/O AN/TRD. Mfr: Litton. Price $2400.00.

L BAND SLOT ARRAY Freq: 1010 to 1110 mHz. 10KW peak. Horiz beam: 7 deg. Input Imp: 52 ohms. Type AT-352/UPA-22.

400MC REFLECTOR with discone horn radiator. Type AS-532/U. Price $375.00.

250 mHz QUAD HELIX Gain 21.5db. Quad Helix with 10' square apx. Reflector. For telemetry on Atlas Instrumentation system. Can be supplied with Sci. Atlanta tracking pedestal & control console.

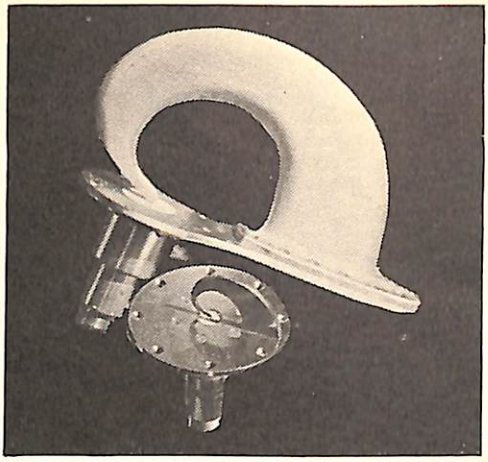
200MC HELIX for telemetry band. With mounting base. Price $175.00.

SPINNING PARABOLA 38'' dia., foc. lgth. 10½'' equipped w/spinner motor and C band feed. Radome covered. Mfr: Reeves Instrument. Type FPS-16 SLP. Price: $575.00.

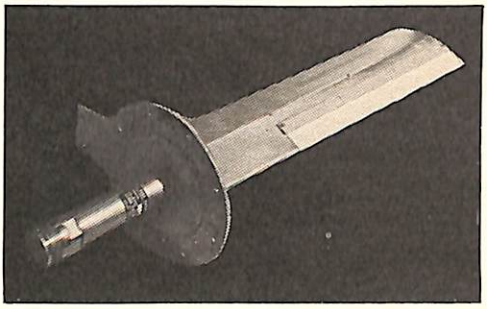
DIPOLES. X Band: 6'' focal lgth dipole feed. Price $15.00; 12'' focal lgth Cutler feed. Price $25.00. S Band: ⅞'' coax. Price $25.00; ⅞'' coax for spinner motor 14'' focal lgth for SCR 584. Price $55.00. L Band: dipole radiator, p/o TPS-1D. Price $55.00.

HORNS: 5 megawatt feed for 10 cm AN/FPS-6. Price: $575.00. Sci Atlanta calibrated L band horn. Price: $450.00. L band feed, type TPS-1D. Price: $275.00. X band feed horn pressurized. Price: $55.00. X band circ polarized horn type AT-488/APG-30. Price: $55.00.

Dual Horns with aperture openings 10'' x 7.5'' flare angle 90 deg. Coaxial feed, dipoles. 1.5'' lg. Unit is cast aluminum with mounting bracket adjustable in azimuth and elevation angle. Price: $75.00.



SCIMITAR ANTENNAS. S band: Tamar type 3575. Price: $85.00. Low S band: Tamar type 3575. Price: $85.00. P Band: Tamar type 3400D. Price: $125.00.



STUB ANTENNAS L band. Tamar type 50061. Price: $75.00. X band type AT-521/APN-69. Price: $125.00. 160-240 mHz type AT-225/APN. Price: $25.00. 200-350 mHz. Phastron type 29. Price: $35.00. 190-400 mHz. Phastron type 29. Price: $35.00. AT-183/AP. Price: $35.00.

ANTENNA MAST 15' portable mast that can be assembled, erected and dismantled by one person. Mast consists of 3 sections 2⅝'' in diameter and base plate that permits rotating through 360 deg. Plate marked in 1 deg increments to facilitate boresiting antennas. Complete with carrying case, anchors, cable and mounting hardware. Mfr: Shepard Labs type AB-275/TLQ-9. Price: $250.00.

HAND POSITIONER-POINTER: Manually operated mount capable of accurately pointing telemetry ant., pick-up dish, binoculars, camera, etc. thru 360 deg az.180 deg elev. when mounted on pipe stand. Wt: 35 lbs. Made for G.E. Price: $74.50.

TRIPOD MOUNT Large pan and tilt head for mounting optics or antennas. Spring balanced, all metal construction. Level bubble and carrying case. Mfr: Quick Set Industries. Price: $250.00.

AZIMUTH ROTATER 7'' dia drive shaft complete with mounting clamps for attaching antenna mast or similar load. Speed: 2.5 RPM. Synchro: 1 to 1 speed type 23TX6. Pwr input: 115V 60 Hz AC 2.1 A. 12'' wi, 20'' lg, 21'' hi. Type AB-504/G.

AZIMUTH ROTATOR Type MPX-7. DC drivd. Speed: 0 to 15 RPM. Synchro: 1 to 1 & 36 to 1 speed type 23TX6. 17'' wi, 21'' lg, 17'' hi. Includes coaxial rotary joint for L band.

AZIMUTH MAST ROTATER Type AB-504/G with C-2089/G synchro readout and controller. 115V 60cy AC drive. Price $650.00.

ANTENNA STABILIZERS

MARK 8 MOD 2 Pitch roll stable element. Data output is 2 & 36, speed, level. Cross level 2 & 36 or 2 & 72 speed. For large shipboard tracking and gun mounts. Mfr: Westinghouse. Price $4800.00.

AN/SRN-4 PLATFORM A stable platform designed for pitch and roll stabilization on "Project Sextant"-satellite track for shipboard. Modified for missile track at Eglin. Platform compl with gyro, amplifiers, power supplies, frequency generator, multi-speed repeaters. Original acq. cost: $1,000,000.00. Mfr: Collins Radio & Norden. Price: $22,500.00.

STABILIZED AZIMUTH MOUNT. Roll & pitch stabilized for shipboard use. 360 deg search. Mfr: Bendix.

AUTOTRACK FEEDS

SPINNING FEED Off center scanner. 1800 RPM. X band. For use with Fresnel lens on M-33 radar system. Inc. tach. generator. Input: 208V 3 ph 400cy. Mfr: WE type KS-15235-L1. Price: $1250.00.

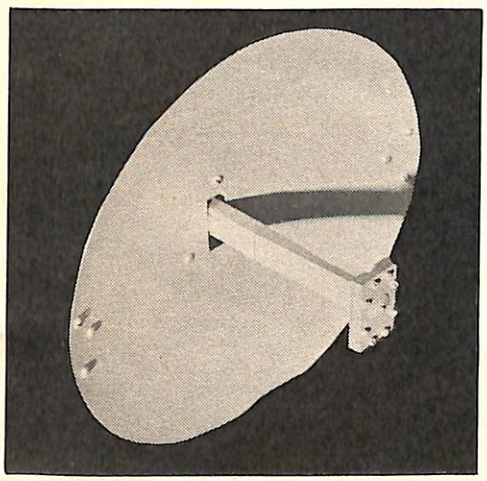
NUTATING FEED Spiral scan. 1440/2160 RPM. X band. GE motor type 5BC48AB38A 120VDC. Mfr: G.E. type MK-15, Mod 3. Part of Fire Control system MK-56.

NUTATING FEED Capable of conical scan, spiral scan, Palmer scan. X Band rotary joint. Ref: MIT Rad Lab Series Vol 26 pg 64. Price $375.00.

NUTATING FEED 3600 RPM synchronous motor and 8" lg waveguide dipole. Pwr: 115V, 3Ph, 60Hz. Mfr: Canoga Model 765.

NUTATING FEED used on the MOD-2 missile tracking radar. 1800 RPM· motor. Peak power rating 250KW. 7/8" coax. Pwr input: 115V, 3Ph, 60Hz. Mfr: Reeves & Canoga type MOD 2. Nutator can be supplied with or without feed.

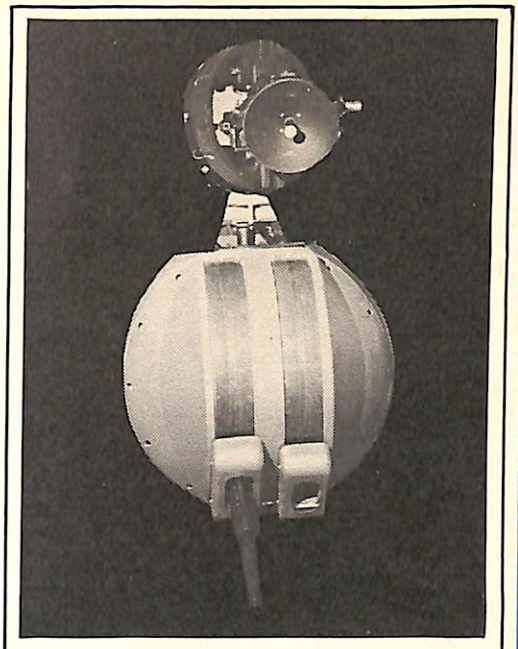
DISHES



X BAND FEED AND DISH 15" parabolic reflector with 6" focal length Cutler feed dipole. 1"x½" waveguide. Price: $95.00.

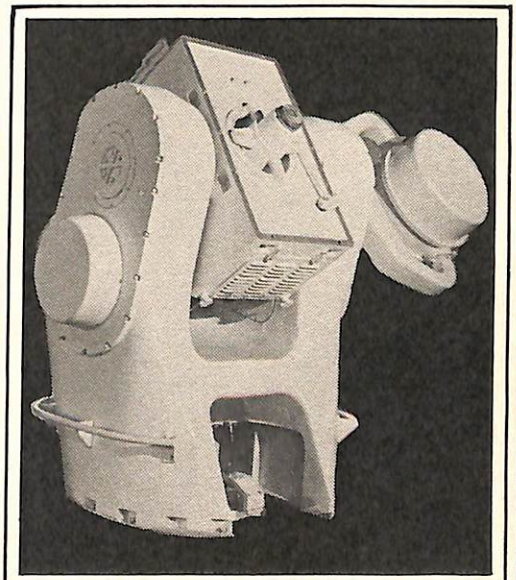
PARABOLIC REFLECTORS: 30" alum perf w/X band feed. Price: $175.00. **18"** precision cast magnesium for X band. Price $135.00. **5'** perforated alum Radiation Inc. "Radiquad" 200 mHz telemetry dish with horn feed. Price $450.00. **6'** solid alum. Price $275.00. **8'** perforated alum Price $375.00.

FRESNEL LENS: 8' dia. $750.00. 6' dia. $450.00.



AZ-EL MOUNT/TURRET Complete B-47E bomber tracking mount and tail turret system. Stabilized. Supplied with computer, amplidynes, cabling, etc.

BORESIGHT TELESCOPE Power 8X. Cross hair reticle. Elbow type. Night light receptacle. Type: M2A1. Price: $150.00.



NIKE MOD CAPTURE-TRACK. Modified Nike Ajax/Herc. mount combining pointing and tracking capability. 14" dish sync. to scanner for 6' dish. Input: 115V 3 Ph 400 Hz. Mfr: Western Electric.

RADOMES

AIRBORNE: 52" base dia, 42" lg. Fiberglass. 3 cm window. Mfr: Lockheed, type APS-42. Price: $450.00.

GROUND: 25' base dia, 20' hi. Apx. 10cm window. Easily erected fiberglass orange peel sections. Type CW-413. Price: $4200.00.

ANTENNA SYSTEMS

X-Y PLOTTING BOARD

PT-392/MSQ-1A X-Y plotting poard for use with tracking radar systems. Back-light, egg crate dividers. Servo driven pens. Reeves Inst. $1500.00.

X-Y PLOTTING BOARD Incl coordinate converter. AC solid state circuits perform polar to rectangular conversion. Includes two 30x30" plotting boards with 4 standard map scalefactors, timing marks, power supplies and altitude readout. Pwr: 115V 60 Hz.

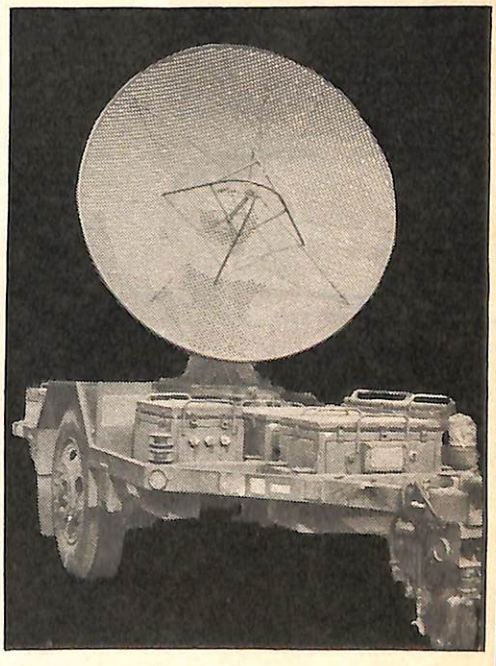
RD-92 3 Channel Data Recorder. The unit has pens mounted on three 30" stationery booms. Each pen has a 2 speed (1 and 36) AC servo amplifier and gear drive unit which control the pen movement. The paper drive unit can be controlled either manually or automatically. Orig used as a field recorder and displayed azimuth, height, and range. Power: 115V 60Hz AC. Mfr: E.A.I. Price $750.00.

VARIPLOTTER MODEL 205H Electronics Assoc. Plotting board and P to C converter with 18 DC amps. 28" square board (Pen carriage arms not included) with provisions for dual pens for a display of X, Y on one pen, H and range on the other. Automatic interchange. Variable scale factor and parallex. 1 or 3 sec. smoothing selectable on each channel.

ANTENNA PATTERN TEST SET 1 to 35 gHz. Incl freq source with power outputs of apx 50-100 miliwatts, 1000 Hz modulator, delay unit, receiver with outputs for recorder and power supplies. Pwr: 115V 60 Hz. Mfr: PRD type AN/USM-107

SLIP RING ASSY.

34 silver slip rings ¼" wide 5" dia with 72 collector brushes. Mfr: RCA. Price $650.00.



S BAND PASSIVE TRACKER Atlas Instrumentation System Az El mount. Complete passive tracker, S band, 6' dish, 360 deg azimuth –11 deg to 180 deg elevation, magnetic amp drives. With receivers, etc. Trailer mtd. Input: 115V 60Hz AC. Mfr: G.E. Price: $8750.00.

GENERAL EQUIPMENT

SONAR SYSTEMS

AN/FQS-1A. SCANNING SONAR. 180 deg az sweep, 60-0-60 deg elev sweep. Range: 800 ft. Freq: 70-78 kHz. Output: 200 watts. Input: 115V 60cy AC. Mfr: Edo..

AN/UQS-1B. SCANNING SONAR. 360 deg az sweep, 60-0-60 deg elev sweep. Range: 200, 500, 1000 yds. Automatic and manual slewing. Input: 440V AC 60cy. Mfr: G.E.

QHBa. SCANNING SONAR. Range: 3800 yds. Pwr output: 500 watts. Input: 115V 60cy AC. Mfr: Sangamo.

QCU. RANGING SONAR. Range: 1000 yds. Freq: 17-27 kHz. Pwr output: 200 watts. Input: 115V 60cy. Mfr: RCA.

HYDROPHONES. Rochelle Salt type, 6' lg, rubber encapsulated. Price: $150.00 ea.

AN/SQS-11A SCANNING SONAR. Range: 3800 yds. Power output: 500 watts. Input: 115V 60cy AC. Mfr: Sangamo.

AN/SQR-8 SONAR RECEIVING SET. Operates with either echo ranging or listening equipment and provides CRT display

COUNTERMEASURES EQUIPMENT

AN/ALQ-16	System L, S, C, X, Bands
AN/ALR-12	Receiver Antenna L, S, C, X, Band
AN/TLR-8	Receiver .5-12GHz
AN/MPJOT	2.5MHz-12GHz
AN/TLR-1	Receiver 65-245MHz
AN/ALM-29	PP-3131 Power Supply
AN/ALA-15	Scimitar Antennas
AN/ALT-7	Transmitter 160-350MHz
AN/ARQ-8	Transmitter 25-105MHz
AN/ALT-8	Transmitter 2.3-4.1GHz
AN/ALT-6	Transmitter 2.4-3.6GHz
AN/ALT-4	Transmitter 8.8-11.5GHz
AN/QRC-10	Transmitter 30 or 60MHz
AN/APT-9	Transmitter 200-2400MHz
AN/ULT-2	Transmitter X Band
AN/ALQ-3	Antenna

ECM TRAINER Freq: 1820 kHz – 10.5 gHz. 10 separate transmitters and antennas cover all bands. Pwr output up to 5.0 watts CW. Modulation simulates radar, radio, TACAN, VOR and Drone control signals. Complete unit mounted in helihut. Originally used to train ECM operators. Pwr: 115V 60 Hz. Mfr: Sylvania Elec. type MPJOT.

COMMUNICATION SYSTEMS

40KW COMMUNICATIONS TRANSMITTER. Freq. range: 4 to 21 mHz. 6 xtal channels. Radio telegraph, freq shift. Can be SSB. Power amplifier pair GL-880. Input: 230V 50/60cy AC. Mfr: Press Wireless type PW-40A. USN type TEC.

3KW COMMUNICATIONS TRANSMITTER 10 channels autotune. xtal & M.O. Telephone, CW and FSK, pr. 4x100 final. Input: 220V 60cy AC. Mfr: RCA. AN/FRT-15. 2 to 30 mHz. Price $2500.00.

DIGITAL DATA TERMINAL 8 channels. 64 stations. Plug in modular printed ccts and transistors thruout. Mfr: Bendix-Pacific. AN/TYC-3. $3500.00.

TELEPHONE CARRIER 4 channels. 50 mi range, 200-2800cy band pass. Input: 115V 60cy AC. Mfr: W.E. Price $1400.00.

TRAINERS

NAVY TYPE OCJ Surface-search radar training system. Price $1500.00

NAVY TYPE OCZ Trainer will generate 3 IF signals that will simulate the flight of an aircraft. The signals can be 13, 30 or 60 mHz and 1, 2 or 4 microsec at various PRF's. Display will cover an area of 240 miles square and will simulate most characteristics of a search radar target. Pwr: 115V 60 Hz. Price: $1500.00.

AIRCRAFT CONTROL SYSTEM Incl automatic flight control amp., roll control computer amp., ailas computer amp., attitude memory computer amp., pitch control computer amp., autopilot relay, autopilot and accelerometer attitude control. Mrr: Hughes type 486400.

AIRCRAFT CONTROL SYSTEM TRAINER Incl complete A-12D autopilot system with aircraft mock up. N-1 compass system and associated navigational equipment. Demonstrates actual control of all control surfaces. Pwr: 28VDC, 115V, 400 Hz.

MICROWAVE LINKS

PATH LOSS MEASURING FACILITY type 2002V. Transmitter-freq: 1 gHz, 2 gHz & 5 gHz. Pwr: 20 W or 120 W CW. Freq stability 5 parts in 10 to 9th power per 24 hours maximum. Power monitor and alarm system. Recv: 1 gHz noise figure 7db, 2gHz N.F. 8 db, 5 gHz N.F. 9db. Bandwidth: 500 Hz. Freq stability 5 parts in 10 to 9th power per 24 hours. 14' parabolic dishes. 2 ea. type MB-4 Diesel Gens. Mfr: REL.

C Band System type: Philco CLR-6 & 7. Freq Band: 6125-7425 mHz. Pwr output: 1 watt. Input. 115V 60cy AC. Mfr: Philco.

C BAND System type CLR-9. FM microwave link. Freq: 7425-7750 mHz. Dual channel trans and recv. Trans tube VA-222A klystron. Mixer preamp and IF amp included. Patching panels and auto switching also available. Pwr: 115V 60 Hz. Mfr: Philco.

C BAND 3 transmitter channels. Freq: 7775, 7615, 7455 mHz. Pwr. 150 milliwatts using QK422 klystrons. One recv channel at 7935 mHz. On-off, pulse or voice freq. information can be multiplexed on the microwave carrier. Included are 6' parabolic antennas. Pwr Input 115V, 1 ph, 60 Hz. Mfr: Motorola.

C Band System type: Collins 552A5. Freq Band: 7515 mHz band. Input: 115V 60cy AC. Following items in stock: 358L-3 termination unit, 112E-6 fuse panel, 364B-7-1 channel demod, 680K-4-3 frequency gen, 363-7-4 channel mod.

C Band System type: AN/GRC-59. Freq Band: 5000 mHz band. Pwr output: 5 watts. Input: 115V 60cy AC. Mfr: Philco.

C Band System type: AN/TRC-27. Freq Band: 5000 mHz band. Input: 115 60cy AC. Mfr: Raytheon.

C BAND. System type: Western Electric TD-2. Freq Band: 3700-4200 mHz. Pwr output: 23 dbm min. Osc tube: 416B. Following items in stock: Transmitter microwave generator, Receiver microwave generator, 40mHz shifter.

L Band System type: AN/FRC-23. Freq Band: 1700-1850 mHz. Pwr output: 10 watts. Input: 115V 60cy AC. Mfr: GE type UR-2B.

L Band Tropo System type: AN/FRC-39. Freq Band: 1700-2400 mHz. Pwr output: 1 KW CW. Input: 208V 60cy AC. Mfr: R.E.L.

L Band Tropo System type: AM-1671/FRC-56. Freq Band: 1700-2400 mHz. Pwr output: 10 KW CW. Osc. 4KM 50,000 SG Eimac. Power amplifier chassis only. Mfr: R.E.L.

MULTIPLEXER SETS System type: CMT-4. Philco. 12 channel receiving terminals. 12 channel transmitting terminals. Also single channel rcvg-smtg duplex dropout sets type CMT-4 -1SD.

PARAMETRIC AMPLIFIER Airborne Instrument Labs. model 2313A. X band pump using Varian klystron. Complete unit including control system.

BEACONS — TRANSPONDERS

APN-12	UHF Transponder
APX-6	L Band Transponder
APN-7	S Band Transponder
UPN-7	S Band Transponder
DPN-19	S Band Transponder
APN-19	S Band Transponder
APN-60	S Band Transponder
DPN-1	S Band Transponder
APW-11	S Band Transponder
Avien 149-C	C Band Transponder
APN-11	X Band Transponder
APN-12	X Band Transponder
UPN-4	X Band Transponder
DPN-32	X Band Transponder
APN-69	X Band Transponder
FPN-13	X Band Transponder
CPN-6	X Band Transponder
AAI	X Band Transponder
APN-135	X Band Transponder
APN-136	Ku Transponder
APX-25	UHF Transponder
RT-504/APW	X Band Transponder

EQUIPMENT VANS

VAN 10' Long. Single door, Single axle, 4 wheels. Air brakes. Alum. shelter apx 6x6x6'. Insulated, equip w/lighting. Side door access. Complete with radar antenna window. Price $1800.00.

VAN 18 ft Low bed type with special housing for radar equipment and ant pedestal. Tandem axle (Eye type hitch, leveling jacks.) Mfr: Fruehauf type K-84. Price: $2800.00.

VAN 20' LONG Fully insulated, wired for 110VAC with lights and outlets. Fifth wheel for hauling by std truck tractor. Buttressed walls for handling high roof torsion. 1 entrance door, 2 equipment doors, 4 wheel rear axle. Will hold 10 tons of equipment. Elevator from van floor to roof incl in some units. Exc condition. Mfr: Freuheuf. Type MSQ-1. Price: $5800.00 with elevator, $4500.00 less elevator.

VAN 21' Long. Insulated, with lighting. 1 door each side, full equip access door on rear. Single axle, 4 wheels. Air brakes. Tractor 5th wheel forward. Type SCEL. Price: $4200.00.

AIRCRAFT SYSTEMS

A-12D Autopilot System Total autopilot system with servo motors, gyros, and controls. Pwr: 115V 400 Hz. Mfr: Sperry.

AN/ARN-12 Nav. Sys. Marker Beacon Recv R-122/ARN-12. Recv freq: 75 mHz. Used with ID-249/ARN course indicator as a landing & nav. aid.

AN/ARN-14 Sys (Localizer & Omni-Range Receiver) Recv freq: 108.1-135.9 mHz. Converts VHF signals for use with course slope, and range indicators. Uses ID-250, ID-251 indicators.

AN/ARN-18 Glide Slope Receiver. Recv freq: 329-335 mHz. Converters UHF signals for use with glide slope approach indicator ID-249.

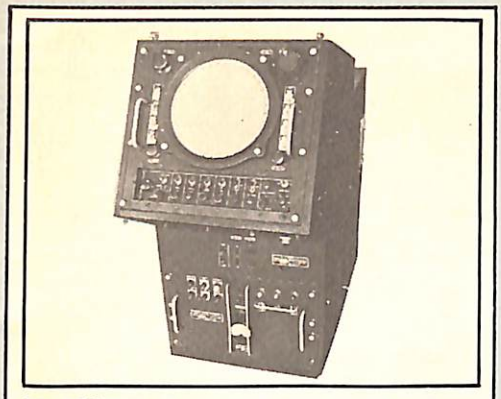
AN/ARA-25 Automatic D.F. 1) Elect. Amp AM-608/ARA-25. 2) Antenna AS-578. 3) ID-250 Indicator. Uses UHF (ARC-27) signals to position motor driven antenna AS-578. Pwr req: 115V, 400 Hz, 28VDC.

N-1 Compass System Master compass for autopilot, and other nav. controls. Pwr: 115V 400 Hz. Mfr: Kearfott.

SWINGING COMPASS 1) Compensator gyro compass. 2) Tran. error compensator. 3) True heading transmitter B-1. 4) Tester swinging compass T1-1027.

AIRCRAFT TRAINING SYSTEMS

A-12D Autopilot. **N1** Compass.
ARA-25 ADF. **ARN-12** Nav. **ARC-27** UHF.
ARN-14 Localizer, Omni. **ARN-18** Glide Slope.



PPI 12" CRT. Range: 0-50, 0-100, 0-200 mi. Range marks: 10 and 50 mi intervals. MTI. Off center scan. Complete console. Pwr input: 120/208V 60cy AC. Mfr: G.E. type OA-99/FPS-8.

PPI 12" CRT Rotating yolk, incl MTI. Pwr supply incl. Mfr: G.E. p/o AN/CPS-6B. $1,400.

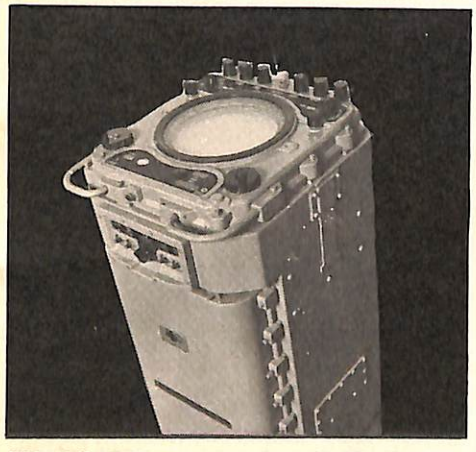
PPI 12" CRT. Range: 2, 4, 10, 20, 80, 200 mi. Rotating yoke. Delayed sweep. Input: 115V 1 ph 60cps AC. Mfr: Raytheon. Type: VJ. $750.00

PPI 12" CRT Ranges: 1½, 4, 8, 20 and 40 miles. Range markers at ½, 1, 2, 5 and 10 miles. Magnetic deflection. Uses 400 Hz synchro data for deflection. FTC and azimuth cursor incl. 115V 60 cy AC. Mfr: RCA. Price: $950.00.

12" PPI CRT Range 30 and 60 miles. Electromagnetic deflection. Power supply can be supplied. Pwr: 115V 400 Hz. Mfr. Western Electric.

16" PPI CRT Range: 1, 2, 4, 8, 20 and 40 miles. Range marks: ¼, ½, 1, 2, 5 and 10. Rotating yoke type deflection. Relative and true bearing indication on moveable bezel. Input: 115V 60 Hz. Mfr: Raytheon.

16" PPI CRT Range: 1, 2, 6, 15, and 40 miles. Features include: FTC, STC, lin or log receiver, fixed range marks at ½, 2, 5, and 10 miles and a variable range mark with direct readout. Rotating yoke type deflection. 60 cy synchro. Input: 115V 60cy AC. Mfr: Sperry type MK3. Price: $975.00.



PPI 10" CRT Range .5, 1, 2, 5, 10, 20, 50, up to 300 mi. Rotating yoke. 1 and 36 speed. Handles any PRF between 140 and 3000 pps. Mfr: RCA. Type AN/SPA-4A. Price: $1400.00.

10" PPI CRT Range: 0-400 miles, cont variable. Range markers: 1, 2, 5, 10, 20, 50 miles. Offset center up to 200 miles. Joystick control of cursor and range strobe. Pwr input: 115V 60 Hz. Mfr: Hazeltine type SPA-59.

10" PPI CRT Range: 0-250 miles cont variable. Range marker: selectable 1, 2, 5, 10, 20, 50 miles. Offset center up to 240 miles. Pwr input: 115V 60 Hz. Mfr: Hazeltine type SPA-9.

10" PPI CRT Designator Indicator (repeater). Range remotely selected at 7.5, 15, 30, 60, 120, 240 miles. 2 channel input. Pwr input: 115V 60 Hz. Mfr: RCA type Mark 7 Mod 0.

10" PPI CRT Range: 30, 60, 120 miles. Electrostatic deflection, offset sweep, and circuits for generation of various symbols included. High voltage power supply can also be supplied. Type Nike system. Pwr. 115V, 400 Hz. Mfr: Western Electric.

10" PPI CRT Range: 0-60 mi. MTI. 2-5-10 mi range marks. Electrostatic sweep. Ideal for RAPCON (Remote display via tel. lines). Input: 115V 60cy AC. Mfr: Bendix type CPN-18. Price: $575.00.

7" PPI CRT Rotating yoke type. Range: 4, 20, 80 and 200 miles. Range marks and center expanded capability. Req 60 Hz 1 sp azimuth, positive trigger 25±15 volt and positive 2 volt video. Pwr: 115V 1 Ph 60 Hz. Mfr: Westinghouse type VE.

7" PPI CRT Ranges: 1, 3, 8, 20 miles. Compact 16"x18"x18". Contains all sweep circuits and HVPS. Rotating yoke. Req 400 Hz synchro input. Pwr: 115V 400 Hz and Bt. Mfr: RCA.

7" PPI CRT 7UP7. Range: 10, 20, 50, 100 and 200 miles. Magnetic deflection and focus. Long persistence. Range strobe, cursor and FTC included. Originally used in airborne search mission. Pwr: 115V 400 Hz. Mfr. G.E. type APS-20B.

7" PPI CRT. Range: 2-50-300 mi. continuous. 115V 60cy AC. Mfr: Austin Co. type AN/SPA-18.

5" PPI CRT. Airborne pilot display type. Electrostatic sweep. 200 mi range. HV pwr supply not incl. Mfr: Philco type APS-31. Price: $37.50.

10" PPI 5" "B" 3" "A" SCOPE All mounted on one console. PPI and "B" scope have magnetic deflection. PPI has 60 and 120 mile range switch. B scope displays 5K yard range 36 deg angle. A scope displays 500 yards range. H.V. power supply not included but can be furnished. Pwr: 120 V 400 Hz. Mfr: Western Electric.

PPI-A scope with MTI. PPI 7" CRT rotating yolk. 20-40-80-160 mi ranges. "A" scope 5" CRT. Input 115V 400cy AC. Mfr: Raytheon.

RHI 12"CRT. Height range: −5000 to +35,000 ft. Azimuth range: 0 to 200 miles. Elev angle marks at 5 deg. intervals. Input: 120/208V 60cy AC. Mfr: G.E. type FPS-6. Price: $1400.00.

RHI 12" CRT. 200 mi range–60,000 ft. Input: 115V 60cy AC. Mfr: G.E. Navy type VL-1. Price: $950.00.

RHI 12" CRT Range 0-60,000 ft. 200 miles. Input: 115V 400cy AC. Mfr: RCA type AN/TPS-10D Radar.

NIKE AJAX INDICATOR CONSOLE
Consists of complete rack with PPI, A scope, etc., plus plotting board. Individual indicator units and pwr supplies in stock. M-33 also in stock.

INDICATORS

"B" SCOPE 5" CRT Displays a 4 mile by 30 deg sector. Electromagnetic deflection type Nike P.I. Pwr: 115V 400 Hz. Mfr: Western Electric.

"B" SCOPE 10" CRT Displays 4 mile by 30 deg area. Electrostatic deflection type Nike Hercules. Pwr: 115V 400 Hz. Mfr: Western Electric.

A SCOPE 5" Range: 100K yards, variable from 15K to 100K. Electrostatic deflection. When used with 30 Hz lobing systems angle error information can be displayed. Two 23TR4 synchros can be used for position information. H.V. power supply can be furnished separately. Pwr: 120V, 400 Hz and DC voltages. Mfr: Western Electric for the M-33.

"A" SCOPE 5" CRT. 4-20-80-200 mi range. Input: 115V 60cy AC. Mfr: Westinghouse. $575.00

"A" SCOPE 5" CRT Range: 10-50 miles cont variable. Electrostatic deflection. High voltage supply can also be supplied. Pwr: 115V 400 Hz. Mfr: Western Electric.

"A" "B" & "C" SCOPE Uses two GL4475 CRT's with electrostatic deflection. "-B" scope displays either B type ± 60 deg and 16K yards. "C" scope uses a spiral scan to display az-el info. Req DC input for scan generation and low voltage DC. +4KV and −2KV supply included: 115V 400 cy AC input. Mfr: Westinghouse type Aero 21B. Price: $575.00.

RANGE INDICATOR Type IP-209/FPS-8. Price $850.00.

VIDEO MAPPER CONSOLE Uses a K1230P7 14" PPI for display, and a 6291 10 stage photomultiplier as a video pickup device. Motor driven yoke and timing system. Used as part of the SAGE system. Pwr: 115V 60 Hz. Mfr: IBM type OA-1007/FSQ.

RADAR SCOPE CAMERA Type 0-15. Uses a Fairchild radar scope recording camera C-1. System is complete with 2 ea 100' film magazines, power supply, control box and 20 power magnifier. Pwr: 115V 60 Hz. Mfr: Farnsworth Div. ITT.

RADAR SIGNAL SWITCHBOARD SB-442/SP. Allows video and trigger information to be switched to 10 indicators. Video input and output signals .2 to 3 V. Trigger signal output 20± 5V. Input: 115V 60 Hz 1 Ph 400W. Mfr: Admiral type SB-442/SP.

SIGNAL DATA RECORDER

RADAR FINGERPRINT SYSTEM 6 channel 90-1350 PPS. 1-10,000 microsec. 0-900 pulse counter. Includes digital clock and register storage panels, sweep gen., function gen., high voltage supply. Type AN/GLH-2. Price: $1500 ea.

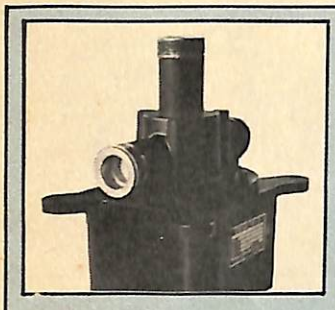
MTI SYSTEM. Clutter gated non-coherent mti rack. Incl video sw unit, pulse width desc, sweep gen, lin/log rcvr, coh precancel, etc. Input: 115VAC 60cy AC. Mfr: AIL. Price: $1800.00

QUARTZ DELAY LINE

500 microsec delay. 30mHz. 1000 ohms. Mfr: LFE. Price $225.00.

30 to 640 microsec delay. 32 separate delay channels. 30mHz drive 3 ft. high 1 ft. dia. Mfr: Corning Glass. Price: $875.00.

WAVEGUIDE COMPONENTS



0-5 gHz COAXIAL SWITCH

Broadband. SPDT. Handles up to 500 watts CW. 50 ohms Z. Mates w/UG-532. Input drive 18 to 30VDC, 1.5A. Mfr: Thompson Products. Price $64.50.

S BAND WAVEGUIDE SWITCH Freq: 2.6 to 3.9 gHz. Peak power: 2 megawatts. Uses a rotary selector solenoid. 3 ports. Pwr input: 28VDC. Mfr: Bogart. Price: $135.00.

PRESSURIZING PUMPS

MK-23/AP 15 to 30 psi with absolute press switch. Dim: 3x4x6". Input: 28VDC. Price: $37.50.

HD-16A/UP 30 to 34 psi with absolute pressure switch. Dim: 4x6x8". Input: 28VDC. Price: $64.50.

Model 22J 10 to 25 psi with absolute pressure switch. Incl dehydrating system. Dim: 2x2x3'. Input: 115V 60cy AC. Price: $225.00.

Model 22 10 to 50 psi with absolute pressure switch. incl. dehydrating system. Mim: 2x3x3'. Input: 115V 60cy AC. Price: $250.00.

LIGHTHOUSE CAVITIES

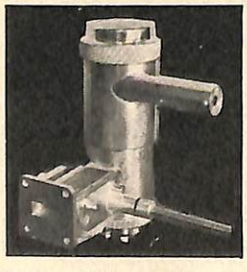
"S" BAND 2C40 osc. High pwr temp comp., Compl S Band coverage at max pwr. $77.50.

"S" BAND 2C40 osc. Temp. comp. brass. Tunable over 10cm band. REF: MIT Rad. Lab. Series Vol 3 pg 305. $37.50.

"L" BAND 2C40 osc. tunable w/Xtl conv. $85.00.

"L" BAND AMPLIFIER CAVITY 2C40 lighthouse tube. Tunable, gold plated. $85.00.

"L" BAND 1000mc. ampl cavity 2C39A type. Up to 1 KW pulse pwr. "BNC" output. u/w UPX-6. New. $120.00.



KLYSTRON MOUNTS

X BAND MOUNT – shielded. With variable att for 2K25 klystron. Waveline model 688. $35.00.

X BAND MOUNT – 2K25-723A/B mount with cplg. to waveguide run and afc. Shielded. Incl tuning rod. Matching tuneable output slugs. Dual crystal mount. Pwr cable w/min plug. $25.00.

S BAND MOUNT – 10cm. Type N output. Tuneable over range. For Shephard tube ie: 726 etc. $15.00.

S BAND MOUNT – For reflex klystron. Dual N output for power splitting. $15.00.

K BAND COUPLING – For 2K50. RG 66/U guide. $25.00.

FLEXIBLE WAVEGUIDE

4"L	**WR-90 1"x½"**	CVR-CVR	R	**$5.00**
4½"		CVR-CVR	R	**5.00**
5½"	S-bend	CH-CH	R	**5.00**
7"	S-bend	CVR-CVR	R	**5.00**
8"		CVR-CH	P	**5.00**
8½"		CVR-CH	M	**5.00**
9½"		CVR-CH	R	**8.00**
10"		CVR-CVR	R	**8.00**
11"	90 deg twist	CVR-CH	R	**8.00**
11"		CH-CH	P	**12.00**
11"		CVR-CH	R	**12.00**
14"		CVR-CVR	R	**14.00**
15"		CH-CH	R	**14.00**
16"		CVR-CH	R	**16.00**
18"		CVR-CVR	R	**18.00**
18"	90 deg twist	CVR-CVR	R	**18.00**
18"		CVR-CH	R	**18.00**
19½"		CH-CH	R	**21.00**
27½"		CVR-CVR	R	**24.00**
30"		CH-CH	R	**24.00**
36"		CVR-CH	R	**28.00**
36"		CVR-CVR	R	**28.00**
48"		CVR-CH	R	**45.00**
96"		CH-CH	R	**90.00**
6"L	**WR-112 1¼"x⅝"**	CVR-CVR	R	**5.00**
9"		CVR-CVR	R	**10.00**
12"		CVR-CH	R	**12.00**
12"		CVR-CVR	R	**12.00**
14"		CH-CH	R	**12.00**
14½"		CH-CH		**12.00**
15"		CVR-CH	R	**14.00**
18½"		CVR-CH	R	**18.00**
19½"		CH-CH	R	**18.00**
19½"		CH	R	**18.00**
19¾"		CH-CH	R	**18.00**
22"		CVR-CVR	R	**18.00**
24"		CVR-CH	R	**22.00**
25"		CVR-CH	R	**22.00**
26"		CVR-CH	R	**22.00**
27"		CVR-CH	R	**24.00**
48"		CVR-CVR	R	**48.00**
8'		CVR-CH	R	**75.00**
10'		CVR-CH	R	**75.00**
17'		CVR-CVR	R	**125.00**
7"L	**WR-187 2"x1"**	CH-CH	R	**15.00**
12"		CVR-CVR	R	**24.00**
18"		CVR-CVR	R	**34.00**
21"		CVR-CVR	P	**25.00**
7'	90 deg twist	CH-CH	R	**35.00**
12"L	**WR-284 3" x 1½"**	CVR-CVR	R	**65.00**
12"	90 deg twist	Sq.CVR-Sq.CVR	M	**50.00**
30"		CVR-CVR	R	**95.00**
32"		CVR-CVR	R	**95.00**
36"		CVR-CVR	R	**110.00**
17"L	**WR-650 6⅝"x3½"** 90 deg bend	CVR-CVR	R	**85.00**
72"	**WR-2100 21"x10½"**	CVR-CVR	M	**250.00**
3½"L	**WR-62 Ku Band**	CVR-CH	M	**25.00**
5"		CVR-CH	M	**25.00**
6"		CH-CH	M	**25.00**
9"		CH-CH	R	**35.00**
10"		CVR-CH	R	**35.00**
10½"		CH-CH	R	**35.00**
12"		CH-CH	R	**35.00**
22"		CH-CH	R	**44.00**
24"		CH-CH	R	**44.00**
25"		CH-CH	R	**44.00**
36"		CVR-CH	R	**55.00**
40"		CVR-CH	R	**55.00**
4½"L	**WR-42 K Band**	CVR-CH	R	**25.00**
8"L	**WR-430**	CH-CH	M	**45.00**

P=Plastic M=Metal R=Rubber

WAVEGUIDE TRANSITIONS

4"L	**WR-112 to WR-90**	Sq.CVR-Sq.CVR	**$8.00**
9"L	**WR-112 to WR-90**	CH-Rd.CH	**12.00**
3"L	**WR-112 to WR-90**	CH-Rd.CH	**8.00**
4½"	**WR-112 to WR-90**	Rd.CH-CVR	**8.00**

WAVEGUIDE

X BAND RG52 1"x½" Wave guide $2.50 per ft. E bend 90 deg $12.00. E bend 45 deg $12.00. H bend 90 deg $12.00. Press flange VA-1100 $5.00. UG40/U choke fl $1.00. 5 ft lgths w/ch-cvr flgs $16.00.

X BAND RG51 1¼"x⅝" Waveguide. $2.00 per ft.

X BAND RG 68 1¼"x⅝" alum. Various lgths 8" to 95" long with UG137A to UG138A flanges. $3.50 per ft. E plane bends $10.00. H plane bends $10.00.

C BAND RG50 1½"x¾" Waveguide $2.75 per ft. E bend 90 deg mitre $12.00. E band 45 deg $12.00. H bend 90 deg $12.00.

C BAND RG-49. 2" x 1" waveguide 12' lgths w/UG-148B/U flange. Price $45.00 per lgth.

S BAND RG48 3"x1½" Waveguide (alum) $3.50 per ft. Circ choke (alum) $8.00. Circ cvr (alum) $5.00. Circ ch (brass) $9.00. E bend 90 deg short radius casting $7.50. H bend 90 deg mitre with rect. fl. $35.00. 4" section. cir flgs. Price $10.00.

S BAND RG44 ⅞" COAX. Silver pl. 12 ft. lgths. $35 per lgth. 90 deg bend. $6.00.

L BAND RG69 6½"x3¼" Waveguide sections, various lgths w/flanges $10.00 ft. E Bend $65.00. H Bend $65.00. 90 deg. twist $65.00.

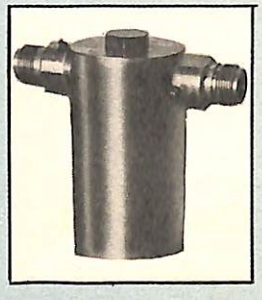
I.F. STRIPS

30MC I.F. 5.5MC bandwidth. 120db gain. Sensitivity 130db below 1 watt. Uses 8 6AK5's $74.50.

60MC I.F. 5MC bandwidth. 130db gain. Sensitivity 95dbm. Uses 9 6AK5's 1 6AL5. Texas Instr $55.00.

60MC I.F. 2MC bandwidth. 100db gain. Uses 6 6AK5's supplied. Mfr: W.E. wt: 9 oz. Price $24.50.

60 mc I.F. STRIP 10 mHz bandwidth. 110 db gain. 65 db of gain control.



MICROWAVE FILTERS

F-28/APN-19 FILTER CAVITY JAN spec. 2700-2900 mHz, 1.5db max. loss at ctr. freq. overband, 3db at 15 mHz band ends. Price: $37.50 ea.

Couple 2 filters in series for double tuned cct with flat response over wider band pass. Silver plated; invar tuner. Ref: MIT Rad Lab Series Vol 3 pg 144; Vol 11 pg 377.

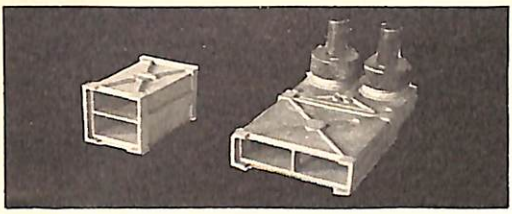
400MC LOW PASS FILTER Rat race type filter with 400 mc cutoff. "BNC" input-output connectors. Price $22.50.

CRYSTAL MOUNTS

X BAND Broad band crystal mount 1"x.5" guide UG40 choke flange input. "BNC" output. incl. 1N23C xtal. Mfr: Airtron. Brand new latest type. Production quan in stock for immed dlvry. $18.50.

S BAND coaxial xtal mount. Tuneable Z. Type "N." Production quan in stock Price: $9.50.

CRYSTAL MIXERS



X BAND BROAD BAND BALANCED MIXER Mfr: M.D.L. Precision lx.5 wg casting using short slot hybrid. Pound type broad band dual balanced xtal holder. Price $25.00.

X BAND TOPWALL HYBRID JUNCTION Precision lx.5 wg casting $14.50. Crossover output for use with junction. $6.50.

X BAND DUAL BB BAL MIXER ASSY incl. Varian kly mtg, duplexer, dir cplr. Compl. Fire Control system front end. $74.50.

S BAND MIXER ASSY. 2700 to 2900mc. Tuneable mixer with 30mc output, 300 ohms. Input: 50 ohms Z. Incl T-R box. $35.00.

S BAND LOW LEVEL CONVERTER Direct RF to DC. Type "N." Tuneable for Z match. $9.50.

3.1-3.5 gHz Waveguide type with 1 megawatt power capability. Includes TR, ATR and dir coupler. Nike Ajax type. Can be supplied with tuneable preselector and mixers if req.

S BAND PENCIL MIXER Raytheon SO/SG type. $25.00.

S BAND Duplexer assembly plus RF to IF converter. p/o APS-20. Price: $425.00.

L BAND Coax mixer assy. N fittings. Price: $75.00.

DIRECTIONAL COUPLERS

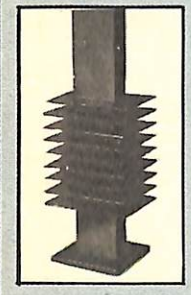
X BAND 1"x½" GUIDE a) 20db uni-dir. CG-176/AP $25.00. b) 20db bi-dir $25.00. c) 20db uni-dir cross guide $25.00. d) 20db bi-dir cross guide $25.00. e) 35db bi-dir cross guide $25.00.

X BAND 1¼"x⅝" GUIDE 20db bi-dir $27.50. 30db uni-dir. W.G. output $35.00 "N" output $45.00.

C BAND 2"x1" 35db uni-dir. 34.50.

S BAND 3"x1½" GUIDE 27db uni-dir. $37.50.

S BAND ⅞" COAX 35db uni-dir. $148.50



DUMMY LOADS

100 TO 800MC Coax fittings. Up to 200 watts CW. $125.00.

X BAND RG-52/U waveguide. Up to 50 KW peak. $28.00.

X BAND RG-51/U waveguide. Up to 250 KW peak. $55.00.

S BAND RG-48/U waveguide. Up to 1 megawatt peak. $95.00.

L BAND Dummy Load DA-217/FPS-56. Average dissipation: 1.5KW nominal. Peak power: 17.2 megawatts. Freq: 1.12 to 1.7 gHz. Used on FPS-56, 61, 69 & 76. Mfr. Bogart & FXR. Price: $185.00.

AMPLIFIER-FREQ. CONVERTERS

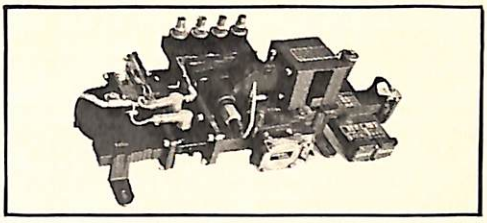
X BAND L.O. 6315 klystron. 8.15-10 gHz. Ref. cavity. 5 stage IF amplifier. Complete with tubes. Price: $124.50. RG-52 waveguide input.

S BAND L.O. 2C40 lighthouse tube. 2.7-2.95 gHz. 6 stage amplifier. Type "N" coax input. Complete with all tubes $84.50.

L BAND Cavity Converter. Input Signal: 1220-1280 mc. Output signal: 60 mHz. Solid brass, gold plated. Used with a 2C40 tube.

WAVEGUIDE COMPONENTS

RADAR FRONT ENDS



X BAND Compl mixer-duxplexer assy. 1"x.5" wg. Dual broad band bal. mixer using 4 1N-49 crystals. 6334TR dual cross guide dir cplr. For u/w Varian klystron. P/O MA-10 fire control radar system. $74.50.

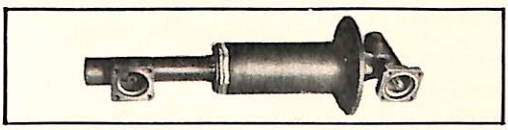
X BAND Compl radar plumbing front end. c/o 2K25 local osc mt, 2K25 beacon mt, type N adapter, crystal mt with tuning slug, variable attenuator, beacon xtal mt, wg to N adapter. Also matching duplexer assy w/1B24TR 1B35 ATR mt. Latest type Navy radar. $35.00.

S BAND Compl mixer-duplexer assy. 3"x1½" waveguide. P/o AN/APS-20 radar system. Price: $425.00.

"L" BAND PREAMP 1000mc rcvr tuner front end. 1N21B crystal p/o UPX-6. $125.00.

74 TO 320 MC Butterfly Tuner. Rotates thru 360 deg either hand or motor driveable. New. $15.00.

ROTARY JOINTS



⅞ COAX ROTARY JOINT: .25" I.C. type SCR-720. Mfr: W.E. Price: $55.00 ea.

PULSE ROTARY JOINT: 12KV 250 amp. Mfr: Chiksan. Price: $125.00 ea.

L BAND ROTARY JOINT: Conversion section from 1⅝ coax to waveguide. Price $125.00 ea.

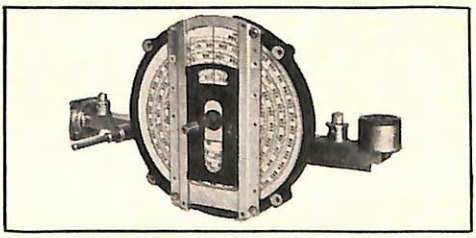
X BAND ROTARY JOINT: RG-51 1¼x⅝" available in L and C configuration. Price $45.00 ea.

X BAND ROTARY JOINT: RG-52 1x½" available with and without 6' long Cutler feed dipole. $35.00

L BAND COAXIAL ROTARY JOINT Used with GPX-8 and UPX-6 L Band, 1.5KW power capability. HN type connector on one side, 3' length of coaxial cable on other. Mfr: Polarad.

L-S BAND JOINT Slipring assy. S band waveguide rotary joint, an L band coaxial rotary joint and 6 sliprings for control or power functions. Complete package measures less that 20" long and 10" in diameter. Mfr: Breeze Corp and MDL.

X BAND LAB BENCH SETUP



Consists of 2K25 mount, direct reading invar frequency meter tuning 8450 to 9650 mHz., crystal mount, 3 to 70 db varia. attenuator, waveguide output. This is the compl plumbing assy for the TS-148/UP Spectrum Analyzer. Fully desc. MIT Rad Lab Series Vol 11 pg 431. New. $74.50.

TEST EQUIPMENT

50 Hz-10.5 kHz AUDIO SPECTRUM ANALYZER Freq. range: 50 Hz-10.5 kHz using int. osc. 50 Hz-50 kHz using an ext. osc. Consists of 420 magnetostriction type filters. Filter bandwidth 32 Hz. Pwr: 115V, 50-60 Hz, 1 ph. Mfr: Raytheon Rayspan model 30-2.

.55-220 mHz INTERFERENCE LOCATOR Freq: .55 to 220 mHz in 6 bands. Intensity meter with 3 position attenuator for wide range of input level. Hand portable. Pwr: Batteries or 115V, 60 Hz. Mfr: Sprague Elec. Model 500.

15-125 mHz FIELD STRENGTH RECEIVER Stoddard type TS-587. Price: $225.00.

29-31 mHz TEST SET Power output: 0 to 100 dbm. Modulation: External pulse. PRF: 1080 to 1320. Originally used to test AGC and indicators of APS-67. Pwr: 115V, 60 Hz. Mfr: Magnavox.

IF FREQUENCY CONVERTER Can be used with a signal generator to get IF frequencies from .1 to 55 mHz. The IF can be varied ± 300 kHz in 5 kHz increments. Output level flat (±1db) from .1 to 55 mHz. Basic oscillator frequency 150 mHz. Pwr: 115V 60 Hz. Mfr: Boonton Radio Corp Model CA-207.

200-400 mHz POWER METER Measures 0 to 50 KW peak. Type TS-305C/UP. Price: $175.00.

650-750 mHz SIGNAL GEN. Micrometer tuned wavemeter, micrometer tuned osc. Rel accuracy .3 mHz. Att adj 25 to 60db. Input: 115V 60cy AC. W.E. type LW. Price: $85.00.

500-1300 mHz SIGNAL GEN. Calibrated att. Pulse or CW. Input: 115V 60cy AC. Hewlett-Packard type HP-610A. Price: $475.00.

1140-1360 mHz ECHO BOX Prec tuneable. Micrometer resonance indic. Tyve TS-545/UP. Price: $155.00.

1200-1380 mHz ECHO BOX Tuneable. 500KW peak pwr. Micrometer res indic. Type TS-172/UP. Price: $475.00.

1000-4000 mHz POWER MEASURING SET For measuring pwr between 1000 and 4000 mHz Using attenuators supplied with set range is up to 100 milliwatts avg pwr. Pulse modulated power up to 1 megawatt. Complete. PRD design type AN/URM-20. Price: $185.00.

2400-3400 mHz FREQ METER Micrometer tuning. Resonance indicator. Wt apx 5 lbs. Type N fittings. With carrying case. Sperry type TS-117/AP. $225.00.

2400-3400 mHz POWER METER Sensivity 2 milliwatts full scale. Incl 10 and 10 db att pads. Very compact hand portable. Type N fittings. Type TS-125/AP. Price: $125.00.

2630-2970 mHz ECHO BOX Res indic 100 microamp meter w/xtal detector. Type TS-270. $125.00.

3.5-6.5 gHz WAVEMETER Precision. Micro tune. Sperry type AN/USM-54. Price: $275.00.

8500-9600 mHz SIG GEN. Incl freq meter, pwr bridge, calib att, sq wave gen, reg pwr supply 115V 60cy. Very compact X band portable, carrying case. Used on M-33 and Nike Systems. W. E. type TS-35A/AP. Price: $165.00.

8500-9600 mHz CALORIMETER 0-100 and 0-400 watts CW. Pwr input: 115V 60cy AC. Mfr: G. E. Price: $175.00.

8500-9600 mHz NIKE MISSILE TEST CONSOLE Sig gen, spectrum analyzer, pwr meter plus time delay, msec gen, and pitch/yaw/command test. Mfr: W. E. Nike Missile go-no-go checkout console. Price: $1675.00

8730-8910 mHz ECHO BOX Prec tuning. Micrometer res indic. Type TS-311/UP. Price: $125.00.

8990-9170 mHz SIGNAL GEN. Meter, calib att, sawtooth gen, reg pwr supply and pwr meters. 2K25 osc. Input: 115V 50/60cy AC. Type: TS-263/TPS-10. Price: $125.00.

8990-9610 mHz ECHO BOX Prec tuning. Micrometer resonance indic. Compl with pick-up horn and all access. Type TS-488/UP. Price: $185.00.

15,250-16,250 mHz SIGNAL GEN. CW, pulse, FM operation. Calib att, etc. Compl Ku band sig gen test set. Polarad type TS-743/U. Price: $475.00.

Ku BAND DOPPLER RADAR TEST SET Includes complete test facility for checking doppler radar APN-113. Consists of a spectrum analyzer, DVM, frequency counter, power bridge and necessary microwave components. Mounted on a trailer. Pwr: 115V, 400 Hz, 3 ph and 115V, 60 Hz. Mfr: Sperry Microwave.

Ku BAND MD-7 FIRE CONTROL SYSTEM TEST SET A portable Ku band FCS test set capable of completely checking out the MD-7 FCS. Include automatic checkout of antenna servo, receiver, transmitter and controls. Simulates targets and allows radar lock on. Pwr: 115V, 3 ph, 400 Hz. Mfr: Aircraft Armaments Inc.

MTI TEST SET SM-65/UP Uses radar RF pulse as an input to generate targets which are doppler modulated. Can be used to check sub-clutter visibility, range markers, relative power and other radar checks requiring a signal generator. Pwr: 115V, 50-1000 Hz. Mfr: Pitometer Log Corp.

ECM CHECKOUT CONSOLE Consists of a work bench with self contained power supplies and controls for operation of 4 separate RF oscillators. L-band, Tube 2C36; S-band tube A15143; C-band 7175-7725 tube SK-115; X-band 8.5 to 10 gHz tube 6312. Pwr: 115V, 3 ph, 400 Hz. Mfr: ITT Federal. AN/ALR-12 ECM system used on B-58.

FM TERMINAL TEST SET The unit covers a video freq range of 100 kHz-20 mHz and an IF range of 50-100 mHz. Provides a means for measuring IF & video transmission, IF return loss, IF power of a transmitter and receiver. Mounted in a mobile rack it could be used as an IF & video lab unit. All test adapters and manual. Pwr: 115V, 60 Hz. Mfr: Western Electric for B.T.L.

SONOBUOY TEST SET Originally used to check SSQ-2 buoys. Unit has a 2K25 and a waveguide assembly necessary to perform power, sensitivity, FM deviation and carrier frequency checks. Features a 3" scope, crystal controlled FM oscillator and all necessary DC supplies. Mtd on wheels in a rack. Pwr: 115V 50-1000 Hz. Mfr: Hazeltine type AN/TSM-6.

KLYSTRON POWER SUPPLY & MODULATOR Furnishes beam voltages variable from 250 to 3.6 K volts at 55 watt power levels maximum and 10 turn control for reflector voltage. Signal generator portions furnishes choice of sine, square or sawtooth modulation at various rates. Mtd in small cabinet for use on test bench. Pwr: 115V, 60 Hz. Mfr: Sperry Microline Model 555.

PHASE ANGLE VOLTMETER AD-YU model 202 Vectorlyzer. Freq range: 20Hz-150kHz. Accuracy: .02 deg or 2%. Sensitivity: 1 deg full scale. Votage range: .01 to 250 volts. Pwr: 115V, 60 Hz.

GENERAL EQUIPMENT

DRONE CONTROL AND GUIDANCE EQUIP

AN/UPW-1	Drone Control Sys
RT-504/APW	X Band Tranceiver
AN/DPW-14	Control Sys
KY-296/DPW	Decoder
KY-295/DPW	Command Sig Decoder
CV-812/DPW	Heading Converter
CV-813/DPW	Telemetry Converter
CV-814/DPW	Altitude Converter
CU-503	Antenna Coupler
R-602-A/ARW	UHF Receiver
AN/USD-1	Drone Control Sys
OA-2381/USD	UHF Transmitter
R-943/USD	UHF Receiver
SG-351/USD	UHF Signal Gen.
AN/DPN-32	X Band Transponder
AN/DPN-62	X Band Transponder
AN/DPN-19	S Band Transponder
AN/DPN-62	S Band Transponder
AN/APW-11	S Band Transponder
AN/ARW-55	UHF Transmitter

X BAND DRONE CONTROL SYSTEM UPW-1, DPW-14. Includes coder, decoders, receivers and transmitters necessary to transmit heading, altitude and command information and to receive heading and altitude information. Uses an X-band link up and down. Pwr: 115V 400 Hz. Mfr: Ford Inst.

SYNCOM SATELLITE EQUIPMENT

WE HAVE THE FOLLOWING ITEMS IN STOCK PART OF THE SYNCOM SATELLITE SYSTEM MANUFACTURED BY PHILCO-FORD WESTERN DEVEL. LABS.

Beacon decoder, Command decoder, Command unit, Command receiver, Transmitter wide band, Transmitter narrow band, Automatic frequency control unit, Local oscillator, Transmitter, Transmitter data-link wide band, Transmitter UHF wide band, Transmitter UHF narrow band data-link.

WEATHER EQUIPMENT

RADIOSONDE transmitters type AN/AMT-6D. Includes 4' dia parachute. Mfr: Bendix-Friez. Price: $12.50 ea.

CORNER REFLECTORS Lightweight alum. foil-balsa construction for aiding weather balloon radar tracking. Price: $7.50 ea.

FACSIMILE RECORDER Rotating drum recorder, 60 rpm, direct stylus type, international index 576, black to white signal contrast adj from 10 to 20 db. Recording paper 12" by 19⅛". Operates directly from wire circuits and AM radio circuits. Freq shift req CV-172/UP. Price $275.00. CV-172/U FSK Converter. Price: $225.00. Recording paper in 400' rolls $12.75 per roll.

DIRECTION FINDERS

AN/MRD-14 Direction Finder UHF (Can be used at VHF & HF). Uses an R-278B/GR receiver, converts UHF signals to 30 Hz. signals for display on PPI or Compass Rose type indicator. Pwr input: 115V 60 Hz. Mfr: Craig Systems.

AN/ARA-25 Automatic D.F. 1) Elect. Amp AM-608/ARA-25. 2) Antenna AS-578. 3) ID-250 Indicator. Uses UHF (ARC-27) signals to position motor driven antenna AS-578. Pwr req: 115V, 400 Hz, 28VDC.

M2 OPTICAL TRACKER

The tracker M2 on tripod M12 is used to track a target which is visible and determine continuously the azimuth and elevation of that target. In visual tracking the tracker combines the present azimuth and elevation data (Ao and Eo) with a d-c voltage proportional to the slant range (Do) which is received through the computer from the SCR-584 or a similar radar. These spherical coordinate data are transformed into d-c voltages proportional to the rectangular coordinates of the present position of the target (Xo, Yo, and Ho). These three rectangular coordinate voltages are continuously transmitted to the computer. The tracker also furnishes the radar with selsyn target identification data in the form of Ao and Eo. When completely assembled, the tracker is approximately 5 feet high.

Elbow telescopes M17:
- **Magnification . . . . . 8 power**
- **Field of view . . . . . 6 deg.**

Selsyn data transmitted:
- **Ao (coarse and fine) . . . . . 0 to 6400 mils**
- **Eo (coarse and fine) . . . . —175 to +1600 mils**
- **Fz (coarse only) . . . . . 1-32 fuze numbers**

Selsyn data received:
- **Ao (coarse and fine) . . . . . 0 to 6400 mils**
- **Eo (coarse and fine) . . . . —175 to +1580 mils**
- **Ho (coarse only) . . . . . 300 to 10,000 yards**

Potentiometer data:
- **Do, Ho, Ro, Xo, and Yo . . . . . 0 to 2800 yards**

OPTICAL RANGE FINDER MK 57 Mod 0. Type: Image coincidence. Range marks: 100 to 10,000 yds. Lens filters: clear, polarizer, yellow and dark neutral. Unit is 4' long and 7" in dia. Mfr: Bausch & Lomb.

MISSILE GUIDANCE EQUIPMENT

MSG-3	Pedestal & Electronics
Nike Ajax	MSL Guidance Unit
Nike Herc	Command Guidance Sys. Including Computer

ANALOG COMPUTERS

MPG-4 Ballitsic computer for mortar locator trajectory computation. Mfr: G. E.

MSQ-1A Analog computer for range data.

MSQ-1 Range, az, elev analog computer for simulating targets.

ELECTRONIC ASSOCIATES 320D Complete analog computer. X-Y plotting board used with this computer on AN/FPS-16 radar in stock.

REEVES INSTR. CO. . Electronic Function Generator type EFG-101A, Electronic Computer Multiplier type ECM-101A.

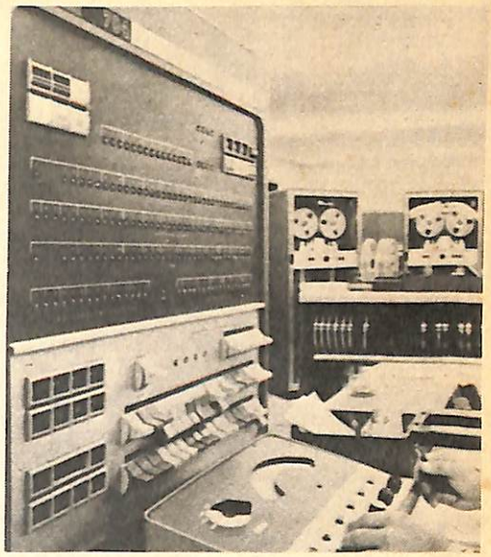
METEORLOGICAL DATA COMPUTER Developed at General Mills to be used in conjunction with AN/GMD "Rawin" radiosonde tracking system for direct readout and recording of radiosonde data. Reads directly: temperature, relative humidity, baro pressure, etc. 115V 50-65cy AC.

M-15 GUN DIRECTOR COMPUTER (105MM) Ballistic computer originally used to solve complex field artillery problems. All solid state. 18 dual channel amps, 6 servo amps, over 50 potentiometers inputs and 10 precision gear units. Pwr: 115V 400 Hz. Mfr: Belock Inst.

MAJOR SYSTEM SPARES

NIKE AJAX, NIKE HERCULES, M-33 TRACK, ACQ, MPS-19, MSQ-1, MSQ-1A, MPQ-10, MPQ-29, SCR-584, MOD II, FPS-6, FPS-8, FPS-14, FPS-16, FPS-18, TPS-1D, TPS-10D.

DIGITAL COMPUTERS



IBM 704 COMPUTER

The **IBM 704** originally cost over $2,000,000.00. We can supply them from stock, immediate delivery, at $10,000. Put that price in your computer budget and think about it. **Peripheral equipment included in this price.**

The IBM 704 is a large-scale vacuum tube, parallel, 36-bit word, binary, scientific data processing system. The 704 was the first commercial large-scale system with built-in floating point instructions; execution speeds of about 40,000 instructions per second; and from 4,096 to 32,678 words of magnetic core storage all included in one system. These features made possible the development of FORTRAN, the first process oriented language to gain wide acceptance.

Being binary, the IBM 704 is most widely used for "scientific" computation. There is more software available for the IBM 704 system than for any other system in the world. It is maintained by the SHARE users group.

INFORMATION FORMATS

Type of Information	Representation
Alphanumeric:	**6 bits.**
Fixed point number:	**sign bit plus 35 bit number.**
Floating point number:	**sign bit plus 8 bit characteristic plus 27 bit fraction.**
Instruction:	**36 bits.**
Data:	**36 bits.**

IBM 650 COMPUTER

The **IBM 650** is still going strong as a workhorse in hundreds of companies handling inventory control, accounting as well as laboratory analysis. Original cost of $450,000.00 apx. sounds like mileage to the moon when compared to the price at which we sell it, namely $2,200. Consists of: Console type 650 magnetic drum, Control unit type 652, Storage unit type 653, Power unit type 655 and **Card Read Punch unit type 533 included.**

Computation time:
- 78,000 additions or subtractions per minute
- 5,000 ten by ten multiplications per minute
- 3,700 twenty by ten divisions per minute
- 138,000 logical decisions per minute.

The 533 Input/Output Unit
High speed punched card input; separate punched card output.
Read 200 cards a minute maximum.
Punch 100 cards a minute maximum.

Radio Research
Instrument Co., Inc.,
3 Quincy Street,
Norwalk, Connecticut 06850
(203) 853-2600

THE WORLD'S LARGEST STOCK OF RADAR AND MICROWAVE EQUIPMENT

When buying U. S. Government Surplus equipment from Radio Research you have the assurance of our high standards. You buy material that has not only passed quality control inspection at the manufacturer's plant and his supplier's plant, and the final inspection of the government inspector, you also get our assurance of satisfaction and our applicable parts warranty. Join our list of customers from Avco to Varian, from G.E. to Westinghouse, from MIT to Stanford, from Rad. Labs. to JPL, from ABMA to NASA, from Lockheed to Boeing, from Project Echo to Mercury who at Radio Research have bought in complete confidence with our DOUBLE guarantee of reliability and satisfaction.

STANDARD CONDITIONS OF SALE

1. GENERAL
All quotations are made and orders accepted subject to the following express terms and conditions and no addition thereto or variation therefrom shall apply unless separately confirmed in writing by the Sellers.

2. CLAIMS
In the event of any legally maintainable claim against the seller by the buyer the liability of the seller shall in no circumstances exceed the actual price charged by the seller to the buyer in respect of any item of goods sold and in such event the seller shall have the option to refund to the buyer such price or to replace the goods in question.

3. CONSEQUENTIAL LOSS AND DAMAGE
The Seller shall not be liable for any loss or damage of whatsoever nature or to whomsoever or whatsoever caused arising out of the use of goods supplied by it.

4. EXPORT
In the case of goods for export the sole responsibility for compliance with any regulations in any way relating to the entry of such goods into the importing country shall be that of the Buyers. In all such cases the actual arrival of the goods in the importing country shall be deemed a good and sufficient delivery by the Seller in accordance with the Contract notwithstanding the failure of the Buyers to have complied with any such regulations as aforesaid.

5. Non-payment of any invoice rendered within the stated payment terms automatically cancels any warranty or guaranty stated or implied. 1-10 N 30

COMPLETE SYSTEMS AND/OR SPARES IN STOCK

AN/ALQ-16
AN/ALQ-19
AN/ALR-12
AN/ALT-6
AN/ALT-8
AN/APA-44
AN/APG-5
AN/APG-13
AN/APG-26
AN/APG-30
AN/APG-32
AN/APG-33
AN/APG-51
AN/APN-3
AN/APN-7
AN/APN-12
AN/APN-19
AN/APN-60
AN/APN-69
AN/APN-76
AN/APN-81
AN/APN-82
AN/APN-84
AN/APN-89A
AN/APN-102
AN/APN-108
AN/APN-110
AN/APN-113
AN/APN-126
AN/APN-135
AN/APN-136
AN/APM-11
AN/APM-12
AN/APQ-24A
AN/APQ-35B
AN/APQ-50
AN/APS-4A
AN/APS-10
AN/APS-15B
AN/APS-20
AN/APS-21
AN/APS-23
AN/APS-27
AN/APS-28
AN/APS-31A
AN/APS-42
AN/APS-44
AN/APS-45
AN/APS-54
AN/APS-64
AN/APT-5
AN/APT-9
AN/APW-11A
AN/APX-6
AN/APX-25
AN/ARA-25
AN/ARC-21X
AN/ARC-27
AN/ARC-65
AN/ARN-12
AN/ARN-14
AN/ARN-18
AN/ARN-21
AN/ARQ-8
AN/ASB-1
AN/ASB -12
AN/ASQ-42V
AN/BPS-4
AN/CLR-9
AN/CPN-2
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AN/CPN-6
AN/CPN-8
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AN/CPS-6B
AN/CPS-9
AN/DJM-4
AN/DPN-1
AN/DPN-19
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AN/DPW-14
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AN/FPS-18
AN/FPS-20
AN/FPS-23
AN/FPS-26
AN/FPS-6
AN/FRC-23
AN/FRC-39
AN/FRC-56
AN/FRT-15
AN/GMD-1A
AN/GMD-2
AN/GNS-1
AN/GNS-2
AN/GPG-1
AN/GPN-6
AN/GPQ-3
AN/GRA-47
AN/GRC-59
AN/GRQ-3
AN/GRS-1
AN/GSS-1
AN/MPA-4
AN/MPG-1
AN/MPG-2
AN/MPQ-4
AN/MPQ-7
AN/MPQ-12
AN/MPQ-18
AN/MPQ-29
AN/MPS-9
AN/MPS-19
AN/MSG-3
AN/MRD-14
AN/MRQ-7
AN/MRR-4
AN/MSA-2
AN/MSA-6
AN/MSQ-1
AN/MSQ-1A
AN/MSQ-2
AN/MSQ-37
AN/MSW-1
AN/PPN-13
AN/QFA-16
AN/SPA-4A
AN/SPA-8
AN/SPA-9
AN/SPA-45
AN/SPA-59
AN/SPN-5
AN/SPN-7
AN/SPN-8
AN/SPN-11
AN/SPS-5B
AN/SPS-6B
AN/SPS-6C
AN/SPS-8
AN/SPS-10
AN/SPS-46X
AN/SQR-3
AN/SQR-8
AN/SPT-5
AN/TCC-7
AN/TLR-1
AN/TLR-8
AN/TPQ-2
AN/TPQ-6
AN/TPS-1D
AN/TPS-1E
AN/TPS-10D
AN/TPS-15
AN/TPS-23
AN/TPS-28
AN/TPS-39V
AN/TPX-17
AN/TPX-21
AN/TRC-27
AN/TRC-56
AN/TRD
AN/TYC-3
AN/UKR-5A
AN/ULT-2
AN/UPA -25
AN/UPN-4
AN/UPN-7
AN/UPQ-1
AN/UQS-1B
AN/USD-1
AN/USM
AN/USM-57
AN/UPX-4
AN/UPX-6
AN/UPX-16
AN/URT-4
AN/WRT-4
AN/WPN-1
AN/WPN-2
AERO-21B
AVQ-5G
A-5
BL-6
CF-1 CF-2
CLR-6 CLR-7
CR-106
E-4 E-34
M-2 M-15
MA-7 MA-10
MD-4 MD-7
M-27 M-33
MK1 Mod 2
MK II Mod 0
MK 3
MK 5 Mod 3
MK 7 Mod 0
MK 8 Mod 2
MK 28 Mod 3
MK 34 Mod 2
MK 57 Mod 0
Mod 2 Reeves
MPJOT
N-1
Nike Ajax
OA-653/MS
OCY-1
QHB
RC-184
Rafax
RD-72/U
SB-442
SC-4 SC-5
SCR-584 SCR-784
ASR-1 ASR-2
SG-1 SG-6B
SG-58A
SJ-1
SO-4
SO-6
SO-8
SO-9
SO-10
SR_b $SR\text{-}3_b$
SV-1
Terrier
T-7 T-9 T-33 T-38
TD-2
U-1
VD-2
VE
VK-5
VJ-1 VL-1